

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Use a separate sheet for each configuration.

Date: 24/03/18  
yy mm dd

Initials: QMM

Kinematics: KinC\_x50\_06

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off

Size: 2x2 mm<sup>2</sup>

Beam position and angle on target:

3H07A	X	Y
1.7 mm	0.3 mm	
Nomin:	Nomin:	
3H07C	X	Y
0.7 mm	0.3 mm	
Nomin:	Nomin:	

HMS

p: + ~~25.94~~ (TV): 25.94  
From GUI Nearest 0.005

SHMS

(TV): 33.91  
Nearest 0.005

NPS

$\theta$  = SHMS 17.61  
-16.30° Nearest 0.005

2.638

Collimator:

HMS: Large  Sieve

NPS Sweep Magnet I = 4.8 Amp

NPS Upstream Corr. I = 6 Amp

NPS Upstream Corr. I = 6 Amp

Run Number: 5354

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l
- UDB

PS1: -1  
PS2: 6  
PS3: -1  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC): 17:18

Stop time (from RC): 17:58

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

I<sub>beam</sub>:  $\mu$ A

coin\_sparse   
coin\_vld   
coin\_sparse\_low

Comments: LED run

Events 3876  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 5355

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 19:25

Stop time (from RC): 19:35

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 8.36e5	hTRIG3 rate 2139	hTRIG4 rate 926
hTRIG5 rate 403	hTRIG6 rate 158	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

I<sub>beam</sub>: 10  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LD<sub>2</sub>

Events 5431  
Charge 5.6  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) ( $\mu$ A) 15.65

Run Number: 5356

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 19:42

Stop time (from RC): 20:13

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 6.37e5	hTRIG3 rate 1321	hTRIG4 rate 670
hTRIG5 rate 209	hTRIG6 rate 106	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

I<sub>beam</sub>: 20  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1/8 LH<sub>2</sub>

Events 1.13  $\mu$ m  
Charge 30.3  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) ( $\mu$ A) 15.89

Run Number: 5357

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 20:34

Stop time (from RC): 21:05

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 6.5 e5	hTRIG3 rate 1637	hTRIG4 rate 853
hTRIG5 rate 282	hTRIG6 rate 161	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

I<sub>beam</sub>: 24  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 2/8 LH<sub>2</sub>

Events 1.36  $\mu$ m  
Charge 35.9  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) ( $\mu$ A) 10.18

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/18  
yy mm dd

Initials: RMW

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-06**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2 mm<sup>2</sup>

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u>	mm	<u>8.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
p: +02.638 From GUI  $\theta$ (TV): 25.94  
Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.91  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.61  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 465 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5359</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:06</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>6.46e5</u>	hTRIG3 rate <u>1629</u>	hTRIG4 rate <u>848</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A			Stop time (from RC): <u>21:37</u>		hTRIG5 rate <u>256</u>	hTRIG6 rate <u>148</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>3/8 UHz</u>	Events <u>1.32M</u> Charge <u>34.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.11</u> ( $\mu$ A)
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Run Number: <u>5359</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:38</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>6.38e5</u>	hTRIG3 rate <u>1601</u>	hTRIG4 rate <u>842</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A			Stop time (from RC): <u>22:09</u>		hTRIG5 rate <u>283</u>	hTRIG6 rate <u>166</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>4/8 UHz</u>	Events <u>1.48M</u> Charge <u>39.3C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.25</u> ( $\mu$ A)
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Run Number: <u>5360</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:10</u>	Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>6.27e5</u>	hTRIG3 rate <u>1668</u>	hTRIG4 rate <u>864</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A			Stop time (from RC): <u>22:40</u>		hTRIG5 rate <u>261</u>	hTRIG6 rate <u>158</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>5/8 UHz</u>	Events <u>1.31M</u> Charge <u>34.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.62</u> ( $\mu$ A)
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Run Number: <u>5361</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:41</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>6.32e5</u>	hTRIG3 rate <u>1625</u>	hTRIG4 rate <u>854</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A			Stop time (from RC): <u>23:12</u>		hTRIG5 rate <u>261</u>	hTRIG6 rate <u>163</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6/8 UHz</u>	Events <u>1.47M</u> Charge <u>39.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.74</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24.03.18  
yy mm dd

Initials: RUUM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-6b**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2mm

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.2638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 35.91  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.61  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.7</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5362</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:13</u> Stop time (from RC): <u>23:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>6.15e5</u> hTRIG5 rate: <u>257</u>	hTRIG3 rate: <u>1635</u> hTRIG6 rate: <u>156</u>	hTRIG4 rate: <u>855</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>7/8 LHz</u>	Events <u>1.4M</u> Charge <u>26.9C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.95</u> ( $\mu$ A)
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Run Number: <u>5363</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:44</u> Stop time (from RC): <u>00:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>6.36e5</u> hTRIG5 rate: <u>261</u>	hTRIG3 rate: <u>1650</u> hTRIG6 rate: <u>160</u>	hTRIG4 rate: <u>860</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6/8 LHz</u>	Events <u>1.6M</u> Charge <u>43.46C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.30</u> ( $\mu$ A)
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Run Number: <u>5364</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:23</u> Stop time (from RC): <u>00:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>3.36 x 10<sup>5</sup></u> hTRIG5 rate: <u>121</u>	hTRIG3 rate: <u>1045</u> hTRIG6 rate: <u>82.6</u>	hTRIG4 rate: <u>550</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>15 <math>\mu</math>A, PS4=0</u>	Events <u>694K</u> Charge <u>17.88C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>6.17</u> ( $\mu$ A)
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Run Number: <u>5365</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:48</u> Stop time (from RC): <u>01:19</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.11 x 10<sup>5</sup></u> hTRIG5 rate: <u>81.1</u>	hTRIG3 rate: <u>719.6</u> hTRIG6 rate: <u>61.4</u>	hTRIG4 rate: <u>369.3</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>10 <math>\mu</math>A, PS4=0</u>	Events <u>639K</u> Charge <u>15.75C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.78</u> ( $\mu$ A)
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# p(e,e' $\gamma$ )p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/19  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-06**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2 mm

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.60</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- 2.638 (TV): 25.94  
From GUI Nearest 0.005

**SHMS**  
(TV): 33.92  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.61  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5366</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:23</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate <u>4.81 x 10<sup>5</sup></u>	hTRIG3 rate <u>1376</u>	hTRIG4 rate <u>733.8</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>01:34</u>		hTRIG5 rate <u>194.9</u>	hTRIG6 rate <u>116.4</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>20 <math>\mu</math>A, PS4=2</u>	Events <u>_____</u> Charge <u>_____</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.42</u> ( $\mu$ A)
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Run Number: <u>5367</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:39</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>6.21 x 10<sup>5</sup></u>	hTRIG3 rate <u>1661.5</u>	hTRIG4 rate <u>869.9</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A			Stop time (from RC): <u>01:55</u>		hTRIG5 rate <u>267.1</u>	hTRIG6 rate <u>158.2</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>24 <math>\mu</math>A, PS4=2</u>	Events <u>246K</u> Charge <u>39.86<sup>m</sup></u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.71</u> ( $\mu$ A)
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Run Number: <u>5368</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:11</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.26 x 10<sup>6</sup></u>	hTRIG3 rate <u>2167.7</u>	hTRIG4 rate <u>861.4</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A			Stop time (from RC): <u>02:42</u>		hTRIG5 rate <u>591.3</u>	hTRIG6 rate <u>265.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>24 <math>\mu</math>A, PS4=0</u>	Events <u>1.4M</u> Charge <u>39.97<sup>m</sup></u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>12.50</u> ( $\mu$ A)
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Run Number: <u>5369</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:45</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.65 x 10<sup>5</sup></u>	hTRIG3 rate <u>1082.7</u>	hTRIG4 rate <u>453.1</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>03:07</u>		hTRIG5 rate <u>110.0</u>	hTRIG6 rate <u>67.7</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>12 <math>\mu</math>A, PS4=0</u>	Events <u>558K</u> Charge <u>14.44<sup>m</sup></u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>6.05</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 03 / 19  
 yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-06**

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.60</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:

HMS  
 p: +/- 2.638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 33.92  
Nearest 0.005

NPS  
 $\theta$  = SHMS 17.61  
-16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5370</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:20</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.74 x 10<sup>6</sup></u>	hTRIG3 rate <u>4375.8</u>	hTRIG4 rate <u>1880.5</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>03:53</u>		hTRIG5 rate <u>1618.9</u>	hTRIG6 rate <u>710.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 20  $\mu$ A, PS4=0 1<sup>st</sup> run  
 Events 3.08 M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Charge 30.4 C Max NPS anode current (single crystal) 12.74 ( $\mu$ A)

Run Number: <u>5371</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:55</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.70 x 10<sup>6</sup></u>	hTRIG3 rate <u>4382.5</u>	hTRIG4 rate <u>1879.3</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>04:25</u>		hTRIG5 rate <u>1570.4</u>	hTRIG6 rate <u>696.0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 20  $\mu$ A, PS4=0 2<sup>nd</sup> run  
 Events 3.09 M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Charge 30.67 C Max NPS anode current (single crystal) 13.00 ( $\mu$ A)

Run Number: <u>5372</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:26</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.71 x 10<sup>6</sup></u>	hTRIG3 rate <u>4480</u>	hTRIG4 rate <u>1881.3</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>04:57</u>		hTRIG5 rate <u>1639.6</u>	hTRIG6 rate <u>720.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 20  $\mu$ A, PS4=0 3<sup>rd</sup> run  
 Events 3.12 M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Charge 30.74 C Max NPS anode current (single crystal) 12.83 ( $\mu$ A)

Run Number: <u>5373</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:59</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.73 x 10<sup>6</sup></u>	hTRIG3 rate <u>4379</u>	hTRIG4 rate <u>1957.9</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>05:29</u>		hTRIG5 rate <u>1675.6</u>	hTRIG6 rate <u>757.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 20  $\mu$ A, PS4=0 4<sup>th</sup> run  
 Events 3.29 M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Charge 32.66 C Max NPS anode current (single crystal) 12.89 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/19  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50\_06**

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

**HMS**  
p: +/- 2.638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.92  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.61  
-16.30° Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>1.37</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.61</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5374</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.64x10<sup>6</sup></u>	hTRIG3 rate <u>4399.3</u>	hTRIG4 rate <u>1878.4</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>20 <math>\mu</math>A, PS4=0 5<sup>th</sup> run</u>		Stop time (from RC): <u>06:06</u>	Events <u>3.35M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>12.68</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk						

Run Number: <u>5375</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.64x10<sup>6</sup></u>	hTRIG3 rate <u>4306.7</u>	hTRIG4 rate <u>1860.2</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>20 <math>\mu</math>A, PS4=0 6<sup>th</sup> run</u>		Stop time (from RC): <u>06:51</u>	Events <u>3.0M</u> Charge <u>28.87C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>12.93</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk						

Run Number: <u>5376</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.65x10<sup>6</sup></u>	hTRIG3 rate <u>4246.9</u>	hTRIG4 rate <u>1838.6</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>20 <math>\mu</math>A, PS4=0 7<sup>th</sup> run</u>		Stop time (from RC): <u>07:22</u>	Events <u>3.14M</u> Charge <u>30.87C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>12.55</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk						

Run Number: <u>5377</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.65x10<sup>6</sup></u>	hTRIG3 rate <u>4372.5</u>	hTRIG4 rate <u>1871.3</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>20 <math>\mu</math>A, PS4=0 8<sup>th</sup> run</u>		Stop time (from RC):	Events <u>2.32M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>12.53</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk						

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24 / 3 / 19  
 yy mm dd

Initials: SL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_50-06**

$E_{beam}$ : 6.369 GeV

Raster:  On  Off  
 Size: 2 x 2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

**HMS**  
 $p$ : +/- 2.638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.92  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.61  
-16.30  
Nearest 0.005

3H07A	X	Y
<u>1.71</u> mm		<u>0.35</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.59</u> mm		<u>0.33</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5378</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6626</u>	hTRIG3 rate <u>4473</u>	hTRIG4 rate <u>1850</u>	
$I_{beam}$ : <u>20</u> $\mu$ A	Comments: <u>#9</u>		Stop time (from RC): <u>08:57</u>	Events <u>3.1M</u> Charge <u>30mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.7%</u>	hTRIG5 rate <u>1504</u>	hTRIG6 rate <u>658</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Max NPS anode current (single crystal) <u>12.76</u> ( $\mu$ A)							

Run Number: <u>5379</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6726</u>	hTRIG3 rate <u>4421</u>	hTRIG4 rate <u>1898</u>	
$I_{beam}$ : <u>20</u> $\mu$ A	Comments: <u>#10</u>		Stop time (from RC): <u>09:28</u>	Events <u>3.1M</u> Charge <u>31mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.7%</u>	hTRIG5 rate <u>1584</u>	hTRIG6 rate <u>667</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Max NPS anode current (single crystal) <u>12.76</u> ( $\mu$ A)							

Run Number: <u>5380</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>09:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.826</u>	hTRIG3 rate <u>3284</u>	hTRIG4 rate <u>1451</u>	
$I_{beam}$ : <u>15</u> $\mu$ A	Comments: <u>15 <math>\mu</math>A, 20 min of beam</u>		Stop time (from RC): <u>09:58</u>	Events <u>1.2M</u> Charge <u>12.8mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	hTRIG5 rate <u>845</u>	hTRIG6 rate <u>387</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Max NPS anode current (single crystal) <u>9.5</u> ( $\mu$ A)							

Run Number: <u>5381</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.225</u>	hTRIG3 rate <u>2261</u>	hTRIG4 rate <u>981</u>	
$I_{beam}$ : <u>10</u> $\mu$ A	Comments: <u>10 <math>\mu</math>A, 30 mins</u>		Stop time (from RC): <u>10:42</u>	Events <u>1.6M</u> Charge <u>6.5mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.95%</u>	hTRIG5 rate <u>377</u>	hTRIG6 rate <u>180</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Max NPS anode current (single crystal) <u>6.4</u> ( $\mu$ A)							

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Use a separate sheet for each configuration.

Date:    /   /     
yy/mm/dd

Initials:    

**Kinematics: KinC\_x50-06**

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

**HMS**  
p: +/- 2.638 θ(TV): 25.94  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 33.92  
Nearest 0.005

**NPS**  
θ = SHMS 17.62  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5382</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:44</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>10:48</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: wrong trigger  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

Run Number: <u>5383</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.68e6</u>	hTRIG3 rate <u>4464</u>	hTRIG4 rate <u>1940</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>11:06</u>		hTRIG5 rate <u>1602</u>	hTRIG6 rate <u>718</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 15 mins, 20μA  
Events 616k Charge 18.97m C  
Active trigger LiveTime fraction (NPS Scaler Gui) 59.98%  
Max NPS anode current (single crystal) 12.82 (μA)

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ μA			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events \_\_\_\_\_ Charge \_\_\_\_\_ C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ μA			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events \_\_\_\_\_ Charge \_\_\_\_\_ C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/3/19  
 yy mm dd

Initials: SL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_50\_00**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2mm

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	0.28	Y
<u>1.7</u>	mm	<u>0.2</u>	mm
Nomin:		Nomin:	
3H07C	X	0.56	Y
<u>0.3</u>	mm	<u>0.56</u>	mm
Nomin:		Nomin:	

**HMS**  
 p: +/- -2.638 θ(TV): 25.93  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.3  
Nearest 0.005

**NPS**  
 θ = SHMS 14  
 -16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5384</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>16</u> μA			Stop time (from RC): <u>11:51</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: text 10 → 16 μA  
 Events 2.15k Active trigger LiveTime fraction (NPS Scaler Gui)  
 Charge C Max NPS anode current (single crystal) (μA)

Run Number: <u>5385</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3326</u>	hTRIG3 rate <u>1788</u>	hTRIG4 rate <u>768</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC):		hTRIG5 rate <u>545</u>	hTRIG6 rate <u>253</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: #1116 text rate LD2 8 μA 30min  
 Events 1.5m Active trigger LiveTime fraction (NPS Scaler Gui)  
 Charge 15.2mC 99.9% Max NPS anode current (single crystal) (μA)  
12.27

Run Number: <u>5386</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.1426</u>	hTRIG3 rate <u>1116</u>	hTRIG4 rate <u>594</u>
I <sub>beam</sub> : <u>16</u> μA			Stop time (from RC): <u>13:08</u>		hTRIG5 rate <u>302</u>	hTRIG6 rate <u>175</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: LH2 #1118  
 Events 1.05m Active trigger LiveTime fraction (NPS Scaler Gui)  
 Charge 28mC 99.9% Max NPS anode current (single crystal) (μA)  
14.5

Run Number: <u>5387</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.0526</u>	hTRIG3 rate <u>1090</u>	hTRIG4 rate <u>581</u>
I <sub>beam</sub> : <u>16</u> μA			Stop time (from RC): <u>13:41</u>		hTRIG5 rate <u>293</u>	hTRIG6 rate <u>152</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: LH2 #218  
 Events 850k Active trigger LiveTime fraction (NPS Scaler Gui)  
 Charge 21.7mC 99.9% Max NPS anode current (single crystal) (μA)  
14.3

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/3/19  
yy mm dd

Initials: SL

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x50-0a

$E_{beam}$ : 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:		
3H07C	X	Y
<u>0.6</u> mm	<u>0.3</u> mm	
Nomin:		

**HMS**  
 $p$ : +/- -2.638  $\theta$ (TV): 25.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.3  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14  
-16.30  
Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet  $I$  = 468 Amp  
NPS Upstream Corr.  $I$  = \_\_\_\_\_ Amp  
NPS Upstream Corr.  $I$  = \_\_\_\_\_ Amp

Run Number: <u>5388</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.07e6</u>	hTRIG3 rate <u>1120</u>	hTRIG4 rate <u>592</u>
$I_{beam}$ : <u>16</u> $\mu$ A			Stop time (from RC): <u>14:13</u>		hTRIG5 rate <u>297</u>	hTRIG6 rate <u>171</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LH2 #3/8</u>		Events <u>98k</u> Charge <u>25.4 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>13.9</u> ( $\mu$ A)		

Run Number: <u>5389</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.09e6</u>	hTRIG3 rate <u>1073</u>	hTRIG4 rate <u>573</u>
$I_{beam}$ : <u>16</u> $\mu$ A			Stop time (from RC): <u>14:43</u>		hTRIG5 rate <u>286</u>	hTRIG6 rate <u>163</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LH2 4/8</u>		Events <u>980k</u> Charge <u>25.4 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>14.1</u> ( $\mu$ A)		

Run Number: <u>5390</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.08e6</u>	hTRIG3 rate <u>1077</u>	hTRIG4 rate <u>577</u>
$I_{beam}$ : <u>16</u> $\mu$ A			Stop time (from RC): <u>15:15</u>		hTRIG5 rate <u>303</u>	hTRIG6 rate <u>105</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LH2 #5/8</u>		Events <u>1.02M</u> Charge <u>26.6 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>14.3</u> ( $\mu$ A)		

Run Number: <u>5391</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.12e6</u>	hTRIG3 rate <u>1093</u>	hTRIG4 rate <u>590</u>
$I_{beam}$ : <u>16</u> $\mu$ A			Stop time (from RC): <u>15:50</u>		hTRIG5 rate <u>287</u>	hTRIG6 rate <u>175</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LH2 #6/8</u>		Events <u>861k</u> Charge <u>26.6 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>14.0</u> ( $\mu$ A)		

22.2m

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 3 / 19  
 yy mm dd

Initials: SL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-00a**

E<sub>beam</sub>: 6368 GeV

Raster:  On  Off  
 Size: 2x2mm

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.6</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
 p: +/- -2.638  $\theta$ (TV): 25.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.3  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14  
-16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5392</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:50</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.12e6</u>	hTRIG3 rate <u>1073</u>	hTRIG4 rate <u>577</u>
I <sub>beam</sub> : <u>16</u> $\mu$ A	Stop time (from RC): <u>16:25</u>		hTRIG5 rate <u>2.177</u>	hTRIG6 rate <del>887</del> <u>167</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin\_sparse  coin  coin\_sparse\_low   
 Comments: LH2 #7/8  
 Events 992 Charge 25.72C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 14.37 ( $\mu$ A)

Run Number: <u>5393</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:26</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.02M</u>	hTRIG3 rate <u>1068.5</u>	hTRIG4 rate <u>591.2</u>
I <sub>beam</sub> : <u>16</u> $\mu$ A	Stop time (from RC): <u>16:56</u>		hTRIG5 rate <u>282.6</u>	hTRIG6 rate <u>168</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin\_sparse  coin  coin\_sparse\_low   
 Comments: LH2, 30 min, #8/8  
 Events 941 Charge 24.14C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 14.37 ( $\mu$ A)

Run Number: <u>5394</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <del>16:52</del> <u>17:02</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>4.14M</u>	hTRIG3 rate <u>589.4</u>	hTRIG4 rate <u>301.2</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A	Stop time (from RC): <u>17:33</u>		hTRIG5 rate <u>93.6</u>	hTRIG6 rate <u>68.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
 Events 529 Charge 12.82C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 7.35 ( $\mu$ A)

Run Number: <u>5395</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:36</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.12M</u>	hTRIG3 rate <u>1094.8</u>	hTRIG4 rate <u>586.7</u>
I <sub>beam</sub> : <u>16</u> $\mu$ A	Stop time (from RC): <u>17:52</u>		hTRIG5 rate <u>304.9</u>	hTRIG6 rate <u>193.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
 Events 126 Charge 9.68C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 14.13 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/19  
yy mm dd

Initials: Ha

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50\_0a**

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
Size: 2x2 mm<sup>2</sup>

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.6</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**HMS**  
p: +02.638 (TV): 25.935  
From GUI Nearest 0.005

**SHMS**  
(TV): 30.29  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS -16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5396</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.51M</u> <del>0.894M</del>	hTRIG3 rate <u>1426.4</u>	hTRIG4 rate <u>613.7</u>	
I <sub>beam</sub> : <u>16</u> $\mu$ A	Comments:		Stop time (from RC): <u>18:40</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>493.7</u>	hTRIG6 rate <u>225.5</u>	Events <u>943</u> Charge <u>24mC</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>		Max NPS anode current (single crystal) <u>18.93</u> ( $\mu$ A)					

Run Number: <u>5397</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.13M</u>	hTRIG3 rate <u>1790.1</u>	hTRIG4 rate <u>571.8</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A	Comments: <u>LD2 #1/16, 30min.</u>		Stop time (from RC): <u>19:20</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>338.8</u>	hTRIG6 rate <u>171.3</u>	Events <u>1122</u> Charge <u>10.9mC</u>
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>98.442%</u>		Max NPS anode current (single crystal) <u>11.52</u> ( $\mu$ A)				

Run Number: <u>5398</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.27M</u>	hTRIG3 rate <u>1809.4</u>	hTRIG4 rate <u>780.3</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A	Comments: <u>LD2, 30 min, #2/16</u>		Stop time (from RC): <u>19:52</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>519.8</u>	hTRIG6 rate <u>258.0</u>	Events <u>1410</u> Charge <u>13.82mC</u>
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.684%</u>		Max NPS anode current (single crystal) <u>11.25</u> ( $\mu$ A)				

Run Number: <u>5399</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.26M</u>	hTRIG3 rate <u>1746.5</u>	hTRIG4 rate <u>796.7</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A	Comments: <u>LD2, 30min, #3/16</u>		Stop time (from RC): <u>20:26</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>492.5</u>	hTRIG6 rate <u>240.9</u>	Events <u>1327</u> Charge <u>12.84mC</u>
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98%</u>		Max NPS anode current (single crystal) <u>11.84</u> ( $\mu$ A)				



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 03, 19  
yy mm dd

Initials: Ha

Use a separate sheet for each configuration.

Kinematics: KinC\_x50\_0a

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
Size: 2x2 mm<sup>2</sup>

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.6</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0 2.638  $\theta$ (TV): 25.935  
From GUI Nearest 0.005

$\theta$ (TV): 30.29  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5400</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:27</u> Stop time (from RC): <u>21:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3M</u> hTRIG5 rate <u>530.6</u>	hTRIG3 rate <u>1802.2</u> hTRIG6 rate <u>248.0</u>	hTRIG4 rate <u>790.5</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> $\mu$ A	Comments: <u>LD2, 30min, #4/16</u>		Events <u>1504k</u> Charge <u>14.16C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>12.00</u> ( $\mu$ A)		

Run Number: <u>5401</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:03</u> Stop time (from RC): <u>21:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.29M</u> hTRIG5 rate <u>530.5</u>	hTRIG3 rate <u>1837.1</u> hTRIG6 rate <u>226.9</u>	hTRIG4 rate <u>795.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> $\mu$ A	Comments: <u>LD2, 30 min, #5/16</u>		Events <u>1399k</u> Charge <u>13.77C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.93%</u>	Max NPS anode current (single crystal) <u>11.00</u> ( $\mu$ A)		

Run Number: <u>5402</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:36</u> Stop time (from RC): <u>22:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.29M</u> hTRIG5 rate <u>506.5</u>	hTRIG3 rate <u>1830.0</u> hTRIG6 rate <u>229.4</u>	hTRIG4 rate <u>796.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> $\mu$ A	Comments: <u>LD2, 30 min, #6/16</u>		Events <u>1399k</u> Charge <u>13.62C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.967%</u>	Max NPS anode current (single crystal) <u>11.67</u> ( $\mu$ A)		

Run Number: <u>5403</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:08</u> Stop time (from RC): <u>22:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.30M</u> hTRIG5 rate <u>549.1</u>	hTRIG3 rate <u>1818.0</u> hTRIG6 rate <u>256.4</u>	hTRIG4 rate <u>791.6</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> $\mu$ A	Comments: <u>LD2, 30 min, #7/16</u>		Events <u>1012k</u> Charge <u>9.63C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.942%</u>	Max NPS anode current (single crystal) <u>11.31</u> ( $\mu$ A)		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/19  
yy mm dd

Initials: HA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-0a**

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
Size: 2x2 mm<sup>2</sup>

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.6</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**HMS**  
p: +0.2638  $\theta$ (TV): 25.935  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.29  
Nearest 0.005

**NPS**  
 $\theta$  = **SHMS**  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5404</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG3 rate hTRIG4 rate hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: No beam, trim rack issue  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) ( $\mu$ A) \_\_\_\_\_

Run Number: <u>5405</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:09</u> Stop time (from RC): <u>23:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>N/A</u> hTRIG3 rate <u>N/A</u> hTRIG4 rate <u>N/A</u> hTRIG5 rate <u>N/A</u> hTRIG6 rate <u>N/A</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin N/A  
coin\_sparse\_low   
Comments: coin v/d (LED run)  
last block: 674  
(stopped at)  
Events 247k Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) N/A  
Max NPS anode current (single crystal) ( $\mu$ A) 0.23

Run Number: <u>5406</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:51</u> Stop time (from RC): <u>01:26</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>N/A</u> hTRIG3 rate <u>N/A</u> hTRIG4 rate <u>N/A</u> hTRIG5 rate <u>N/A</u> hTRIG6 rate <u>N/A</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin N/A  
coin\_sparse\_low   
Comments: coin v/d LED run  
Events 385k Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) ( $\mu$ A) 0.67

Run Number: <u>5407</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:53</u> Stop time (from RC): <u>02:25</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.28 x 10<sup>6</sup></u> hTRIG3 rate <u>1789.6</u> hTRIG4 rate <u>764.7</u> hTRIG5 rate <u>496.5</u> hTRIG6 rate <u>234.9</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: LD2, 30 min, # 8/16  
Events 1.31 M Charge 12.66 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) ( $\mu$ A) 11.85

# $p(e, e'\gamma) p$ Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/03/20  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50\_0a**

$E_{beam}$ : 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.76</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.60</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
 $p$ : +/- 2.638  $\theta$ (TV): 25.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.29  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS -16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet  $I = \underline{468}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp

Run Number: <u>5408</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.32 \times 10^6</math></u>	hTRIG3 rate <u>1831.2</u>	hTRIG4 rate <u>791.3</u>
$I_{beam}$ : <u>8</u> $\mu A$			Stop time (from RC): <u>02:57</u>		hTRIG5 rate <u>549.1</u>	hTRIG6 rate <u>253.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min #9/16</u>	Events <u>1.24M</u> Charge <u>12.20C</u>	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>11.14</u> ( $\mu A$ )
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Run Number: <u>5409</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.30 \times 10^6</math></u>	hTRIG3 rate <u>1809.1</u>	hTRIG4 rate <u>783.7</u>
$I_{beam}$ : <u>8</u> $\mu A$			Stop time (from RC): <u>03:28</u>		hTRIG5 rate <u>535.7</u>	hTRIG6 rate <u>245.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min #10/16</u>	Events <u>1.36M</u> Charge <u>13.49C</u>	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>11.79</u> ( $\mu A$ )
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Run Number: <u>5410</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.33 \times 10^6</math></u>	hTRIG3 rate <u>1799</u>	hTRIG4 rate <u>759</u>
$I_{beam}$ : <u>8</u> $\mu A$			Stop time (from RC): <u>03:59</u>		hTRIG5 rate <u>499.5</u>	hTRIG6 rate <u>243.7</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min #11/16</u>	Events <u>1.34M</u> Charge <u>13.30C</u>	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>11.44</u> ( $\mu A$ )
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Run Number: <u>5411</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:01</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.30 \times 10^6</math></u>	hTRIG3 rate <u>1809.8</u>	hTRIG4 rate <u>811.1</u>
$I_{beam}$ : <u>8</u> $\mu A$			Stop time (from RC): <u>04:30</u>		hTRIG5 rate <u>513.9</u>	hTRIG6 rate <u>252.3</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min #12/16</u>	Events <u>1.37M</u> Charge <u>13.25C</u>	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>11.64</u> ( $\mu A$ )
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/20  
 yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-0A**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.59</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:

**HMS**

p: +/- 2.638  $\theta$ (TV): 25.93  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 30.29  
Nearest 0.005

**NPS**

$\theta$  = SHMS  
-16.30°  
Nearest 0.005

**Collimator:**

HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

**Run Number:**

5412

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

04:31

Stop time (from RC):

05:04

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.28 x 10<sup>6</sup>

hTRIG3 rate  
1836.2

hTRIG4 rate  
800.9

hTRIG5 rate  
512.6

hTRIG6 rate  
239.2

- Data ok
- Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: LD2, 30 min #13/16

Events 1.31 M  
 Charge 12.58 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
11.24 ( $\mu$ A)

**Run Number:**

5413

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

05:05

Stop time (from RC):

05:35

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.28 x 10<sup>6</sup>

hTRIG3 rate  
1783.3

hTRIG4 rate  
782.3

hTRIG5 rate  
526.3

hTRIG6 rate  
240.9

- Data ok
- Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: LD2, 30 min #14/16

Events 1.23 M  
 Charge 11.96 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
11.63 ( $\mu$ A)

**Run Number:**

5414

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

05:36

Stop time (from RC):

06:09

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.29 x 10<sup>6</sup>

hTRIG3 rate  
1801.1

hTRIG4 rate  
833.4

hTRIG5 rate  
530.1

hTRIG6 rate  
239.3

- Data ok
- Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: LD2, 30 min #15/16

Events 1.30 M  
 Charge 12.64 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
11.54 ( $\mu$ A)

**Run Number:**

5415

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

06:10

Stop time (from RC):

06:40

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.26 x 10<sup>6</sup>

hTRIG3 rate  
1771

hTRIG4 rate  
781.4

hTRIG5 rate  
501.1

hTRIG6 rate  
234.7

- Data ok
- Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: LD2, 30 min #16/16

Events 1.36 M  
 Charge 13.58 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
11.33 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/20  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-0a**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +1-2.638 From GUI  
 $\theta$ (TV): 25.93 Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.29 Nearest 0.005

**NPS**  
 $\theta$  = SHMS -16.30° Nearest 0.005

3H07A	X	Y
<u>1.69</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.61</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5416</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:43</u> Stop time (from RC): <u>07:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.29 x 10<sup>5</sup></u> hTRIG5 rate <u>295.3</u>	hTRIG3 rate <u>1348.0</u> hTRIG6 rate <u>148.8</u>	hTRIG4 rate <u>605.8</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 6 uA, 20 min.  
Events 709K Charge 6.91C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 8.66 ( $\mu$ A)

Run Number: <u>5417</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:06</u> Stop time (from RC): <u>07:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.21 x 10<sup>5</sup></u> hTRIG5 rate <u>165.1</u>	hTRIG3 rate <u>916</u> hTRIG6 rate <u>88.7</u>	hTRIG4 rate <u>416.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 4 uA, 30 min.  
Events 384K Charge 3.37C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.98%  
Max NPS anode current (single crystal) 6.11 ( $\mu$ A)

Run Number: <u>5418</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:03</u> Stop time (from RC): <u>08:44</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>x</u> hTRIG5 rate <u>x</u>	hTRIG3 rate <u>x</u> hTRIG6 rate <u>v</u>	hTRIG4 rate <u>x</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: LED Run, coin-vld  
Events 384K Charge 0C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) 0.41 ( $\mu$ A)

Run Number: <u>5419</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:56</u> Stop time (from RC): <u>09:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u> hTRIG5 rate <u>0</u>	hTRIG3 rate <u>0</u> hTRIG6 rate <u>0</u>	hTRIG4 rate <u>0</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: LED Run - coin-vld  
Events 384K Charge 0C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) 0.5 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 03 20  
yy mm dd

Initials: T.S

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 50.0a

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +1 2-638  $\theta$ (TV): 25.95  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): -30.3  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 4.6 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5420</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>10</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>9:43</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>X</u> $\mu$ A	Comments: _____		Stop time (from RC): <u>10:22</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LED RUN - C.2 - vld</u>	Events <u>3751</u> Charge <u>0</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: <u>5421</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>10:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.56e5</u>	hTRIG3 rate <u>1387</u>	hTRIG4 rate <u>595</u>
I <sub>beam</sub> : <u>6</u> $\mu$ A	Comments: _____		Stop time (from RC): <u>11:01</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>321</u>	hTRIG6 rate <u>158</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>50-0 KNC. Chye Asym 4 is weird.</u>	Events <u>7421</u> Charge <u>0</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: <u>5422</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>11:02</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.51e5</u>	hTRIG3 rate <u>130</u>	hTRIG4 rate
I <sub>beam</sub> : <u>6</u> $\mu$ A	Comments: _____		Stop time (from RC): <u>11:50</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>kin C 50-0</u>	Events <u>151</u> Charge <u>0</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: _____	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A	Comments: _____		Stop time (from RC): _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: _____	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24 / 13 / 20  
 yy mm dd

Initials: TS

Use a separate sheet for each configuration.

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

**Kinematics: KinC\_x** 50-0

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**HMS** 25.93  
 p: 2.368 From GUI  
 θ(TV): 30.7 Nearest 0.005

**SHMS** 30.7  
 θ(TV): 14.9 Nearest 0.005

**NPS**  
 θ = SHMS 14.9  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 4.8 Amp  
 NPS Upstream Corr. I = 2 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>523</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>12:29</u>	Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>12:29</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Wrong p.e. cable</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>524</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>12:43</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate <u>9.7305</u>	hTRIG3 rate <u>1233</u>	hTRIG4 rate <u>865</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>12:43</u>		hTRIG5 rate <u>285</u>	hTRIG6 rate <u>172</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>525</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>12:02</u>	Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>9.7305</u>	hTRIG3 rate <u>1233</u>	hTRIG4 rate <u>865</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>12:32</u>		hTRIG5 rate <u>285</u>	hTRIG6 rate <u>172</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>1/8</u>	Events <u>1.17</u> <u>2858</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.976%</u>	Max NPS anode current (single crystal) (μA) <u>13.46</u>
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Run Number: <u>526</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>13:34</u>	Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>9.5905</u>	hTRIG3 rate <u>1211</u>	hTRIG4 rate <u>643</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>13:06</u>		hTRIG5 rate <u>277</u>	hTRIG6 rate <u>177</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2/8</u>	Events <u>1.17</u> <u>2858</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.981%</u>	Max NPS anode current (single crystal) (μA) <u>15.53</u>
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 09 / 20  
yy mm dd

Initials: T.S.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 50-0

E<sub>beam</sub>: 6.363 GeV

Raster:  On  Off  
Size: 2x2  $\mu$ m

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field,  
current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1-7</u>	mm	<u>6-7</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0-7</u>	mm	<u>6-7</u> mm
Nomin:		Nomin:

**HMS**  
p: +1-2.363  $\theta$ (TV): 25-9  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30-1  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.9  
-16.30  
Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 466 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5428</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.44e5</u>	hTRIG3 rate <u>1233</u>	hTRIG4 rate <u>642</u>
I <sub>beam</sub> : <u>13</u> $\mu$ A			Stop time (from RC): <u>14:38</u>		hTRIG5 rate <u>278</u>	hTRIG6 rate <u>160</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: 3/8

Events 1.1M Charge 99.979 C Active trigger LiveTime fraction (NPS Scaler-Gui) 99.979 Max NPS anode current (single crystal) 13.71 ( $\mu$ A)

Run Number: <u>5428</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.87e5</u>	hTRIG3 rate <u>1231</u>	hTRIG4 rate <u>643</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>15:10</u>		hTRIG5 rate <u>297</u>	hTRIG6 rate <u>172</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: 4/8

Events 1.1M Charge 99.935 C Active trigger LiveTime fraction (NPS Scaler Gui) 99.935 Max NPS anode current (single crystal) 13.3 ( $\mu$ A)

Run Number: <u>5429</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:19</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.27e5</u>	hTRIG3 rate <u>1231</u>	hTRIG4 rate <u>663</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>15:19</u>		hTRIG5 rate <u>280</u>	hTRIG6 rate <u>163</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: 5/8 Run a little longer to account for beam trips.

Events 1.1M Charge 99.962 C Active trigger LiveTime fraction (NPS Scaler Gui) 99.962 Max NPS anode current (single crystal) 99.962 ( $\mu$ A)

13.26

Run Number: <u>5450</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1 MHz</u>	hTRIG3 rate <u>1.2 kHz</u>	hTRIG4 rate <u>650 Hz</u>
I <sub>beam</sub> : <u>13</u> $\mu$ A			Stop time (from RC): <u>16:39</u>		hTRIG5 rate <u>280 Hz</u>	hTRIG6 rate <u>160 Hz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: 6/8

Events 1.1M Charge 100% C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 12.23 ( $\mu$ A)



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/20  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Kinematics: KinC\_x50-0

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.6</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS

p: +0 2.638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.71  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large   
Sieve

NPS Sweep Magnet  
I = 468 Amp

NPS Upstream Corr.  
I = 0 Amp

NPS Upstream Corr.  
I = 0 Amp

Run Number:

5431

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: -  
PS4: 0  
PS5: -  
PS6: +

Start time (from RC):

16:40

Stop time (from RC):

17:11

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

0.9 MHz

hTRIG3 rate

1.2 kHz

hTRIG4 rate

655 Hz

hTRIG5 rate

296 Hz

hTRIG6 rate

166 Hz

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

7/8

Events 1.2M

Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.9%

Max NPS anode current (single crystal)

13.36 ( $\mu$ A)

Run Number:

5432

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):

17:12

Stop time (from RC):

17:43

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

0.9 MHz

hTRIG3 rate

1.2 kHz

hTRIG4 rate

654 Hz

hTRIG5 rate

290 kHz

hTRIG6 rate

160 Hz

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

8/8

Events 1.2M

Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.9%

Max NPS anode current (single crystal)

18.10 ( $\mu$ A)

Run Number:

5433

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):

17:44

Stop time (from RC):

18:05

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

0.6 MHz

hTRIG3 rate

840 Hz

hTRIG4 rate

433 Hz

hTRIG5 rate

143 Hz

hTRIG6 rate

91 Hz

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 534K

Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

8.94 ( $\mu$ A)

Run Number:

5434

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):

18:06

Stop time (from RC):

18:39

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

0.4 MHz

hTRIG3 rate

620 Hz

hTRIG4 rate

340 Hz

hTRIG5 rate

96 Hz

hTRIG6 rate

70 Hz

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 624K

Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

6.74 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 03 / 20  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-0**

**E<sub>beam</sub>: 6.968 GeV**

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
**yes**  **no**

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.6</u> mm	<u>0.8</u> mm	
Nomin:		Nomin:

**HMS**  
p: +10 2.638  $\theta$ (TV): 25.34  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.71  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5435</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>18:41</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC): <u>18:43</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>JUNK 75 MB/s</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: <u>5436</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>18:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.9 MHz</u>	hTRIG3 rate <u>1.2 kHz</u>	hTRIG4 rate <u>652 Hz</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A			Stop time (from RC): <u>19:03</u>		hTRIG5 rate <u>300 Hz</u>	hTRIG6 rate <u>165 Hz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>FINISHED LH2 CYCLE</u>	Events <u>332K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>18.34</u>
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Run Number: <u>5437</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>19:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>18</u> $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>JUNK</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: <u>5438</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>19:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1 MHz</u>	hTRIG3 rate <u>1.1 kHz</u>	hTRIG4 rate <u>470 Hz</u>
I <sub>beam</sub> : <u>13</u> $\mu$ A			Stop time (from RC): <u>19:59</u>		hTRIG5 rate <u>282 Hz</u>	hTRIG6 rate <u>280 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u># CHOSE 13 uA instead of 18 uA to keep NPS Anode current &lt; 14 uA.</u>	Events <u>950K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>18.31</u>
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 03 / 20  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50.0**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.6</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	

HMS

p: +0 2.638  $\theta$ (TV): 25.34  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.71  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large  Sieve   
NPS Sweep Magnet  I = 463 Amp  
NPS Upstream Corr.  I = 0 Amp  
NPS Upstream Corr.  I = 0 Amp

Run Number:

5439

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):  
20:00

Stop time (from RC):  
20:25

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
0.3 MHz

hTRIG3 rate  
600 Hz

hTRIG4 rate  
250 Hz

hTRIG5 rate  
8 Hz

hTRIG6 rate  
56 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: END OF DUMMY CYCLE

Events 353K  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.9%

Max NPS anode current (single crystal)  
652 ( $\mu$ A)

Run Number:

5440

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):  
20:34

Stop time (from RC):  
21:07

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.5 MHz

hTRIG3 rate  
2.3 MHz

hTRIG4 rate  
341 Hz

hTRIG5 rate  
708 Hz

hTRIG6 rate  
322 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1/16

Events 17M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.9%

Max NPS anode current (single crystal)  
12.14 ( $\mu$ A)

Run Number:

5441

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):  
21:08

Stop time (from RC):  
21:40

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.4 MHz

hTRIG3 rate  
2.2 kHz

hTRIG4 rate  
960 Hz

hTRIG5 rate  
718 Hz

hTRIG6 rate  
330 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 2/16

Events 17M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.9%

Max NPS anode current (single crystal)  
12.37 ( $\mu$ A)

Run Number:

5442

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):  
21:41

Stop time (from RC):  
22:10

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.5 MHz

hTRIG3 rate  
2.2 kHz

hTRIG4 rate  
960 Hz

hTRIG5 rate  
700 Hz

hTRIG6 rate  
325 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 3/16

Events 15M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.9%

Max NPS anode current (single crystal)  
11.88 ( $\mu$ A)

# $p(e, e'\gamma)p$ Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 03 / 20  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-0**

$E_{\text{beam}}$ : 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.6</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

HMS

$p$ : +0.2638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.71  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large  Sieve

NPS Sweep Magnet  $I = \underline{468}$  Amp

NPS Upstream Corr.  $I = \underline{0}$  Amp

NPS Upstream Corr.  $I = \underline{0}$  Amp

Run Number:

5443

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):

22:11

Stop time (from RC):

22:43

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate 1.3 MHz

hTRIG5 rate 700 Hz

hTRIG3 rate 2.2 kHz

hTRIG6 rate 800 Hz

hTRIG4 rate 970 Hz

Data ok  
 Junk

$I_{\text{beam}}$ : 10  $\mu\text{A}$

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4/16

Events 1.7M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%

Max NPS anode current (single crystal) 11.74 ( $\mu\text{A}$ )

Run Number:

5444

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):

22:44

Stop time (from RC):

23:19

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate 1.5 MHz

hTRIG5 rate 700 Hz

hTRIG3 rate 2.2 kHz

hTRIG6 rate 344 Hz

hTRIG4 rate 960 Hz

Data ok  
 Junk

$I_{\text{beam}}$ : 10  $\mu\text{A}$

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 5/16

Events 1.8M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%

Max NPS anode current (single crystal) 12.17 ( $\mu\text{A}$ )

Run Number:

5445

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):

23:20

Stop time (from RC):

23:52

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate 1.5 MHz

hTRIG5 rate 690 Hz

hTRIG3 rate 2.2 kHz

hTRIG6 rate 320 Hz

hTRIG4 rate 955 Hz

Data ok  
 Junk

$I_{\text{beam}}$ : 10  $\mu\text{A}$

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 6/16

Events 1.8M  
Charge 16.68C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%

Max NPS anode current (single crystal) 11.72 ( $\mu\text{A}$ )

Run Number:

5446

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: +  
PS4: 0  
PS5: +  
PS6: +

Start time (from RC):

23:53

Stop time (from RC):

00:25

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate 1.5 MHz

hTRIG5 rate 726 Hz

hTRIG3 rate 2.2 kHz

hTRIG6 rate 337 Hz

hTRIG4 rate 980 Hz

Data ok  
 Junk

$I_{\text{beam}}$ : 10  $\mu\text{A}$

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 7/16

Events 1.60M  
Charge 15.0C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%

Max NPS anode current (single crystal) 12.03 ( $\mu\text{A}$ )

# $p(e,e'\gamma)p$ Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/21  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

Kinematics: KinC\_x50-0

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

$E_{\text{beam}}$ : 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u>	mm	<u>0.33</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.60</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:

HMS

$p$ : +/- 2.638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.71  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large  Sieve

NPS Sweep Magnet  $I$  = 468 Amp

NPS Upstream Corr.  $I$  = 0 Amp

NPS Upstream Corr.  $I$  = 0 Amp

Run Number:

5447

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):  
00:26

Stop time (from RC):  
01:03

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.40 x 10<sup>6</sup>

hTRIG5 rate  
733.6

hTRIG3 rate  
2201.6

hTRIG6 rate  
314.2

- hTRIG4 rate  
973.4
- Data ok
- Junk

$I_{\text{beam}}$ : 10  $\mu$ A

- coin\_sparse
- coin
- coin\_sparse\_low

Comments: LD2, 30 min 8/16

Events 1.87M  
Charge 17.65<sup>m</sup>C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.9%

Max NPS anode current (single crystal)  
11.91 ( $\mu$ A)

Run Number:

5448

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):  
\_\_\_\_\_

Stop time (from RC):  
\_\_\_\_\_

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

hTRIG5 rate

hTRIG3 rate

hTRIG6 rate

- hTRIG4 rate
- Data ok
- Junk

$I_{\text{beam}}$ : \_\_\_\_\_  $\mu$ A

- coin\_sparse
- coin
- coin\_sparse\_low

Comments: This run do not start properly. so have to run again

Events \_\_\_\_\_  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
( $\mu$ A)

Run Number:

5449

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):  
01:11

Stop time (from RC):  
01:42

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.45 x 10<sup>6</sup>

hTRIG5 rate  
734.0

hTRIG3 rate  
2291.3

hTRIG6 rate  
328.2

- hTRIG4 rate  
992.1
- Data ok
- Junk

$I_{\text{beam}}$ : 10  $\mu$ A

- coin\_sparse
- coin
- coin\_sparse\_low

Comments: LD2, 30 min 9/16

Events 1.73M  
Charge 16.67<sup>m</sup>C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.94%

Max NPS anode current (single crystal)  
11.73 ( $\mu$ A)

Run Number:

5450

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):  
01:43

Stop time (from RC):  
02:08

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.42 x 10<sup>6</sup>

hTRIG5 rate  
730.7

hTRIG3 rate  
2227.8

hTRIG6 rate  
321.3

- hTRIG4 rate  
951.6
- Data ok
- Junk

$I_{\text{beam}}$ : 10  $\mu$ A

- coin\_sparse
- coin
- coin\_sparse\_low

Comments: LD2, 30 min 10/16

Events 1.06M  
Charge 10.2<sup>m</sup>C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.85%

Max NPS anode current (single crystal)  
12.31 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/21  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Kinematics: KinC\_x 50\_0

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u> mm	<u>0.32</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.60</u> mm	<u>0.30</u> mm	
Nomin:	Nomin:	

HMS

p: +/- 2.638 (TV): 25.94  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.71  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
 -16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5451</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:27</u> Stop time (from RC): <u>03:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG3 rate hTRIG4 rate	hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LED Run, Coin v LD</u>	Events <u>396k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>0.58</u> ( $\mu$ A)
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Run Number: <u>5452</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:18</u> Stop time (from RC): <u>03:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.46x10<sup>6</sup></u> hTRIG3 rate <u>2209.6</u> hTRIG4 rate <u>970.9</u>	hTRIG5 rate <u>699.0</u> hTRIG6 rate <u>337.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min 11/16</u>	Events <u>2.08M</u> Charge <u>20.36C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.89%</u>	Max NPS anode current (single crystal) <u>12.05</u> ( $\mu$ A)
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Run Number: <u>5453</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:00</u> Stop time (from RC): <u>04:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.50x10<sup>6</sup></u> hTRIG3 rate <u>2269.3</u> hTRIG4 rate <u>994.8</u>	hTRIG5 rate <u>772.3</u> hTRIG6 rate <u>315.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min 12/16</u>	Events <u>1.67M</u> Charge <u>16.07C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.89%</u>	Max NPS anode current (single crystal) <u>12.41</u> ( $\mu$ A)
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Run Number: <u>5454</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:33</u> Stop time (from RC): <u>05:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.38x10<sup>6</sup></u> hTRIG3 rate <u>2185.7</u> hTRIG4 rate <u>973.3</u>	hTRIG5 rate <u>709.3</u> hTRIG6 rate <u>347.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min 13/16</u>	Events <u>1.58M</u> Charge <u>14.90C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.95%</u>	Max NPS anode current (single crystal) <u>12.20</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/21  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-0

Purpose:

- Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u>	mm	<u>0.27</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.59</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

HMS

p: +/- 2.638  $\theta$ (TV): 95.94  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.71  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet  I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5455</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.44 x 10<sup>6</sup></u>	hTRIG3 rate <u>2261.6</u>	hTRIG4 rate <u>976.0</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>05:38</u>		hTRIG5 rate <u>698.1</u>	hTRIG6 rate <u>323.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min 14/16</u>	Events <u>1.58M</u> Charge <u>14.73C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.91%</u>	Max NPS anode current (single crystal) <u>12.20</u> ( $\mu$ A)
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Run Number: <u>5456</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:39</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.48 x 10<sup>6</sup></u>	hTRIG3 rate <u>2335.5</u>	hTRIG4 rate <u>978.4</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>06:11</u>		hTRIG5 rate <u>739.0</u>	hTRIG6 rate <u>332.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min 15/16</u>	Events <u>1.58M</u> Charge <u>15.00C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>12.31</u> ( $\mu$ A)
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Run Number: <u>5457</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.47 x 10<sup>6</sup></u>	hTRIG3 rate <u>2264.8</u>	hTRIG4 rate <u>991.5</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>06:42</u>		hTRIG5 rate <u>720.8</u>	hTRIG6 rate <u>326.0</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2, 30 min 16/16</u>	Events <u>1.68M</u> Charge <u>16.37C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.91%</u>	Max NPS anode current (single crystal) <u>12.01</u> ( $\mu$ A)
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Run Number: <u>5458</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>8.95 x 10<sup>5</sup></u>	hTRIG3 rate <u>1518.3</u>	hTRIG4 rate <u>686.2</u>
I <sub>beam</sub> : <u>7</u> $\mu$ A			Stop time (from RC): <u>07:04</u>		hTRIG5 rate <u>355.9</u>	hTRIG6 rate <u>172.3</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>7 <math>\mu</math>A, 20 min</u>	Events <u>780k</u> Charge <u>7.52C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.91%</u>	Max NPS anode current (single crystal) <u>8.18</u> ( $\mu$ A)
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# p(e,e') p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/21  
 yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u> mm	<u>0.31</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.59</u> mm	<u>0.29</u> mm	
Nomin:	Nomin:	

Kinematics: KinC\_x 50.0

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

HMS

p: +/- 2.638 (TV): 25.94  
From GUI Nearest 0.005

SHMS

θ(TV): 30.71  
Nearest 0.005

NPS

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number:

5459

- LH2 10cm
- CD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):  
07:06

Stop time (from RC):  
07:37

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 6.61 x 10<sup>5</sup>  
 hTRIG3 rate 1136.3  
 hTRIG4 rate 502.4  
 hTRIG5 rate 197.1  
 hTRIG6 rate 113.4  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:  
30 min, 5 uA

Events 845K Active trigger LiveTime fraction (NPS Scaler Gui) 99.97%  
 Charge 80 C Max NPS anode current (single crystal) 5.81 (uA)

Run Number:

5460

- LH2 10cm
- CD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):  
07:39

Stop time (from RC):  
07:54

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 1.47 x 10<sup>6</sup>  
 hTRIG3 rate 2267.4  
 hTRIG4 rate 980.7  
 hTRIG5 rate 747.2  
 hTRIG6 rate 331.7  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:  
15 min, 10 uA

Events 720K Active trigger LiveTime fraction (NPS Scaler Gui) 98.84%  
 Charge 672 C Max NPS anode current (single crystal) 12.22 (uA)

Run Number:

5461

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):  
08:03

Stop time (from RC):  
8:34

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 9.46 x 10<sup>5</sup>  
 hTRIG3 rate 1269.2  
 hTRIG4 rate 640.3  
 hTRIG5 rate 289.2  
 hTRIG6 rate 155.5  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:  
18 uA, 30 min, #1/8

Events 1M Active trigger LiveTime fraction (NPS Scaler Gui) 99.97%  
 Charge 368 C Max NPS anode current (single crystal) 12.92 (uA)

Run Number:

5462

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):  
8:35

Stop time (from RC):  
09:02

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 9.42e5  
 hTRIG3 rate 1261  
 hTRIG4 rate 663  
 hTRIG5 rate 285  
 hTRIG6 rate 167  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:  
#1 2/8

Events 1.0M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Charge 368 C Max NPS anode current (single crystal) 13.31 (uA)

2729



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 03 / 21  
yy mm dd

Initials: TS

Use a separate sheet for each configuration.

- Purpose:**
- Production
  - Test
  - Optics
  - Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Kinematics: KinC\_x 50 - 0

E<sub>beam</sub>: 6368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.7	mm	0.3
Nomin:		Nomin:
3H07C	X	Y
0.7	mm	0.3
Nomin:		Nomin:

HMS

p: +(-) 2-650  $\theta$ (TV): 25.93  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 52-0  
Nearest 0.005

NPS

$\theta$  = SHMS 14.9  
-16.30° Nearest 0.005

Collimator:

HMS: Large  Sieve   
NPS Sweep Magnet I = 40 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number:

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: +  
PS2: +  
PS3: 0  
PS4: +  
PS5: +  
PS6: +

Start time (from RC):

09:08

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

96208

hTRIG3 rate

1283

hTRIG4 rate

661

hTRIG5 rate

293

hTRIG6 rate

167

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4 3/8

Events 5811  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.97%

Max NPS anode current (single crystal) 11.24  $\mu$ A

Run Number:

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  $\mu$ A

Run Number:

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  $\mu$ A

Run Number:

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  $\mu$ A

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 03 21  
yy mm dd

Initials: T-J

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Kinematics: KinC\_x 50

E<sub>beam</sub>: 6368 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>1.2</u> mm	<u>6.2</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.2</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

### HMS

p: +/- 2.638  $\theta$ (TV): 25.940  
From GUI Nearest 0.005

### SHMS

$\theta$ (TV): 33.91  
Nearest 0.005

### NPS

$\theta$  = SHMS 17.61  
-16.30° Nearest 0.005

### Collimator:

HMS: Large  Sieve   
NPS Sweep Magnet I = 4.68 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

### Run Number:

5464

I<sub>beam</sub>: 160  $\mu$ A

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: 1  
PS2: 0  
PS3: 1  
PS4: 1  
PS5: 1  
PS6: 1

Start time (from RC): 13:23

Stop time (from RC):

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 0

hTRIG3 rate 0

hTRIG4 rate 0

hTRIG5 rate 0

hTRIG6 rate 0

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Magnet off Junk LED run.

Events 0  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 0

Max NPS anode current (single crystal) 0.29 ( $\mu$ A)

### Run Number:

5465

I<sub>beam</sub>: 0  $\mu$ A

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: 1  
PS2: 0  
PS3: 1  
PS4: 1  
PS5: 1  
PS6: 1

Start time (from RC): 13:23

Stop time (from RC): 14:03

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 0

hTRIG3 rate 0

hTRIG4 rate 0

hTRIG5 rate 0

hTRIG6 rate 0

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Magnet off LED run.

Events 296  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 0

Max NPS anode current (single crystal) 0.4 ( $\mu$ A)

### Run Number:

5466

I<sub>beam</sub>: 100  $\mu$ A

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: 1  
PS2: 0  
PS3: 1  
PS4: 1  
PS5: 1  
PS6: 1

Start time (from RC): 14:16

Stop time (from RC): 14:53

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 0

hTRIG3 rate 0

hTRIG4 rate 0

hTRIG5 rate 0

hTRIG6 rate 0

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Magnet on LED run

Events 296  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 0

Max NPS anode current (single crystal) 6.35 ( $\mu$ A)

### Run Number:

5467

I<sub>beam</sub>: 0  $\mu$ A

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: JUNK

Events \_\_\_\_\_  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/03/22  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50\_06**

E<sub>beam</sub>: 6-368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
$\infty$ mm	$\infty$ mm	
Nomin:		Nomin:
3H07C	X	Y
$\infty$ mm	$\infty$ mm	
Nomin:		Nomin:

**HMS**  
p: +/- 2638 (TV): 25.94  
From GUI Nearest 0.005

**SHMS**  
(TV): \_\_\_\_\_  
Nearest 0.005

**NPS**  
 $\theta =$  SHMS -16.30  
Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5468</u>	<input checked="" type="checkbox"/> CH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:57</u> Stop time (from RC): <u>00:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>X</u> hTRIG3 rate <u>X</u> hTRIG4 rate <u>X</u> hTRIG5 rate <u>X</u> hTRIG6 rate <u>X</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.16</u> ( $\mu$ A)
I <sub>beam</sub> : <u>X</u> $\mu$ A	Comments: <u>coin-vld LED Run, Magnet off</u>		Events <u>407K</u> Charge <u>C</u>				
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5469</u>	<input checked="" type="checkbox"/> CH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:38</u> Stop time (from RC): <u>01:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>X</u> hTRIG3 rate <u>X</u> hTRIG4 rate <u>X</u> hTRIG5 rate <u>X</u> hTRIG6 rate <u>X</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.34</u> ( $\mu$ A)
I <sub>beam</sub> : <u>X</u> $\mu$ A	Comments: <u>coin-vld, LED Run, Magnet off</u>		Events <u>407K</u> Charge <u>C</u>				
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5470</u>	<input checked="" type="checkbox"/> CH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:18</u> Stop time (from RC): <u>02:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>X</u> hTRIG3 rate <u>X</u> hTRIG4 rate <u>X</u> hTRIG5 rate <u>X</u> hTRIG6 rate <u>X</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.19</u> ( $\mu$ A)
I <sub>beam</sub> : <u>X</u> $\mu$ A	Comments: <u>coin-vld, LED Run, Magnet off</u>		Events <u>406K</u> Charge <u>C</u>				
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5471</u>	<input checked="" type="checkbox"/> CH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:09</u> Stop time (from RC): <u>02:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>X</u> hTRIG3 rate <u>X</u> hTRIG4 rate <u>X</u> hTRIG5 rate <u>X</u> hTRIG6 rate <u>X</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.59</u> ( $\mu$ A)
I <sub>beam</sub> : <u>X</u> $\mu$ A	Comments: <u>coin-vld, LED Run, Magnet off</u>		Events <u>405K</u> Charge <u>C</u>				
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/03/22  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

Kinematics: KinC\_x

**Purpose:**

Production

Test

Optics

Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 9x9

Beam position and angle  
on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

**HMS**  
p: +/-2.638  $\theta$ (TV): 25.94  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): \_\_\_\_\_  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS  
-16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5472</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>
I <sub>beam</sub> : <u>✓</u> $\mu$ A	Comments: <u>Coin vld, LED Run, Magnet off</u>		Stop time (from RC): <u>03:35</u>		hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>405K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.52</u> ( $\mu$ A)
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Run Number: <u>5473</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>
I <sub>beam</sub> : <u>✓</u> $\mu$ A	Comments: <u>Coin vld, LED Run, Magnet off</u>		Stop time (from RC): <u>04:15</u>		hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>405K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.27</u> ( $\mu$ A)
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Run Number: <u>5474</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>
I <sub>beam</sub> : <u>✓</u> $\mu$ A	Comments: <u>Coin vld, LED Run, Magnet off</u>		Stop time (from RC): <u>04:56</u>		hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>406K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.24</u> ( $\mu$ A)
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Run Number: <u>5475</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>
I <sub>beam</sub> : <u>✓</u> $\mu$ A	Comments: <u>Coin vld, LED Run, Magnet off</u>		Stop time (from RC): <u>05:43</u>		hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>405K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.31</u> ( $\mu$ A)
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# $p(e,e'\gamma)p$ Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24, 03, 2009  
yy mm dd

Initials: SKK

Use a separate sheet for each configuration.

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Kinematics: KinC\_x

$E_{beam}$ : 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

HMS

SHMS

NPS

$p$ : +/- \_\_\_\_\_  $\theta$ (TV): \_\_\_\_\_  
From GUI Nearest 0.005

$\theta$ (TV): \_\_\_\_\_  
Nearest 0.005

$\theta$  = SHMS  
-16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet  $I =$ 468 Amp NPS Upstream Corr.  $I =$ 0 Amp NPS Upstream Corr.  $I =$ 0 Amp

Run Number: <u>5476</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>	hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>✓</u> $\mu$ A	Comments: <u>Coin_vld, LED Run, Magnet off</u>			Events <u>406K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.33</u> ( $\mu$ A)				

Run Number: <u>5477</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>	hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>✓</u> $\mu$ A	Comments: <u>Coin_vld, LED Run, Magnet off</u>			Events <u>406K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.39</u> ( $\mu$ A)				

Run Number: <u>5478</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>	hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>✓</u> $\mu$ A	Comments: <u>Coin_vld, LED Run, Magnet off</u>			Events <u>405K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.58</u> ( $\mu$ A)				

Run Number: <u>5479</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>✓</u>	hTRIG3 rate <u>✓</u>	hTRIG4 rate <u>✓</u>	hTRIG5 rate <u>✓</u>	hTRIG6 rate <u>✓</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>✓</u> $\mu$ A	Comments: <u>Coin_vld, LED Run, Magnet off</u>			Events <u>406K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.27</u> ( $\mu$ A)				

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24, 03, 20  
yy mm dd

Initials: T-S

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Kinematics: KinC\_x

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

HMS  
p: +/- \_\_\_\_\_  $\theta$ (TV): \_\_\_\_\_  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): \_\_\_\_\_  
Nearest 0.005

NPS  
 $\theta$  = SHMS  
-16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5480</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>8:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>0</u> $\mu$ A	Comments: <u>coin-uld, LED Run, Magnet off</u>		Stop time (from RC): <u>9:12</u>		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events: <u>408k</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: <u>5481</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>9:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>0</u> $\mu$ A	Comments: <u>coin-uld, LED Run, Magnet off</u>		Stop time (from RC): <u>9:20</u>		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events: <u>636k</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: <u>5482</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>11:54</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>0</u> $\mu$ A	Comments: <u>coin-uld, LED Run, Magnet off</u>		Stop time (from RC): <u>12:32</u>		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events: <u>390k</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: <u>5483</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>12:38</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>0</u> $\mu$ A	Comments: <u>coin-uld, LED Run, Magnet on</u>		Stop time (from RC): <u>13:15</u>		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events: <u>397k</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)				

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/03/22  
yy mm dd

Initials: T-S

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** \_\_\_\_\_

E<sub>beam</sub>: 6.366 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

**HMS**  
p: +/- \_\_\_\_\_ θ(TV): \_\_\_\_\_  
From GUI Nearest 0.005

**SHMS**  
θ(TV): \_\_\_\_\_  
Nearest 0.005

**NPS**  
θ = SHMS  
-16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5484</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>-1</u> PS5: <u>1</u> PS6: <u>2</u>	Start time (from RC): <u>14:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>0</u> μA			Stop time (from RC): <u>15:16</u>		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Coin-vel LED Run, Magnet off</u>	Events <u>3940</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5485</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>15:20</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>1</u> μA			Stop time (from RC): <u>15:24</u>		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Coin-vel LED Run, Magnet off</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5486</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : _____ μA			Stop time (from RC):		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ μA			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 29/04/03  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-1

**Purpose:**

- Production
- Test
- Optics
- Other: elastic

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.70	mm	0.29
Nomin:		Nomin:
3H07C	X	Y
0.60	mm	0.30
Nomin:		Nomin:

HMS  
p: +0.149  $\theta$ (TV): 22.99  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 37.96  
Nearest 0.005

NPS  
 $\theta$  = SHMS 21.66  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I = 2 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5502	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> Choke	PS1: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 02:30 Stop time (from RC): 03:01	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 7910 hTRIG5 rate: 40.0	hTRIG3 rate: 49.2 hTRIG6 rate: 40.1	hTRIG4 rate: 43.0 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Carbon hole targeted beam centering  
Events: 87K Charge: 585C  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal): 2.32  $\mu$ A

Run Number: 5503	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> Choke	PS1: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 03:09 Stop time (from RC): 03:18	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 7919 hTRIG5 rate: 0.2	hTRIG3 rate: 14.9 hTRIG6 rate: 0.2	hTRIG4 rate: 6.6 <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Junk. DAB didn't start properly  
Events: Charge: 4.3C  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal): 2.48  $\mu$ A

Run Number: 5504	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> Choke	PS1: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 03:19 Stop time (from RC): 03:45	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 7855 hTRIG5 rate: 0.2	hTRIG3 rate: 18.6 hTRIG6 rate: 0.2	hTRIG4 rate: 9.3 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Beam position off a bit. Requested tuning & restart run  
Events: Charge: 2.66C  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal): 2.16  $\mu$ A

Run Number: 5505	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> Choke	PS1: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 03:46 Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 9950 hTRIG5 rate: 0.2	hTRIG3 rate: 19.0 hTRIG6 rate: 0.5	hTRIG4 rate: 12.1 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Position tuning seems to be in the opposite direction.  
Events: 26K Charge: 2.68C  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal): 2.54  $\mu$ A



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 29 / 04 / 03  
 yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

Kinematics: KinC\_x\_60-1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: elastic

HMS, field,  
 current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

HMS

p: +0.4149  $\theta$ (TV): 22.00  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 37.96  
Nearest 0.005

NPS

$\theta$  = SHMS 21.66  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5506</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> Choke	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10</u> $\mu$ A	Stop time (from RC): <u>05:23</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Position tuning on-going</u>	Events <u>1288</u> Charge <u>9.50</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.3</u> ( $\mu$ A)
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Run Number: <u>5507</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> Choke	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>79.8</u>	hTRIG3 rate <u>13.5</u>	hTRIG4 rate <u>5.7</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A	Stop time (from RC): <u>05:34</u>		hTRIG5 rate <u>0</u>	hTRIG6 rate <u>0</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Position tuning satisfactory</u>	Events <u>15K</u> Charge <u>8.50</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.26</u> ( $\mu$ A)
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Run Number: <u>5508</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3.38x10<sup>5</sup></u>	hTRIG3 rate <u>380.2</u>	hTRIG4 rate <u>239.6</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A	Stop time (from RC): <u>06:20</u>		hTRIG5 rate <u>63.7</u>	hTRIG6 rate <u>56.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>192K</u> Charge <u>2.85</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98%</u>	Max NPS anode current (single crystal) <u>4.68</u> ( $\mu$ A)
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Run Number: <u>5509</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.66x10<sup>5</sup></u>	hTRIG3 rate <u>418.8</u>	hTRIG4 rate <u>228.2</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A	Stop time (from RC): <u>06:41</u>		hTRIG5 rate <u>74.2</u>	hTRIG6 rate <u>55.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>141K</u> Charge <u>1.80</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>8.27</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 04 03  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: elastic

HMS, field, current OK?

yes  no

Kinematics: KinC\_x \_\_\_\_\_

Elastic

Calo  
3.5 m

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>185</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.76</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

### HMS

p: +0 4.149  $\theta$ (TV): 2.0  
From GUI Nearest 0.005

### SHMS

$\theta$ (TV): 37.96  
Nearest 0.005

### NPS

$\theta$  = SHMS 21.66  
-16.30° Nearest 0.005

### Collimator:

HMS: Large  Sieve   
NPS Sweep Magnet I = 0 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

### Run Number:

5510

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

06:55

Stop time (from RC):

07:27

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.54x10<sup>6</sup>

hTRIG3 rate

986

hTRIG4 rate

551

hTRIG5 rate

342

hTRIG6 rate

193

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments: stopped due to beam down

Events 194K

Charge 6.84C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.86%

Max NPS anode current (single crystal)

8.24  $\mu$ A

### Run Number:

5511

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

07:52

Stop time (from RC):

08:03

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.52x10<sup>6</sup>

hTRIG3 rate

989

hTRIG4 rate

541

hTRIG5 rate

321

hTRIG6 rate

187

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 315K

Charge 17.07C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.86%

Max NPS anode current (single crystal)

8.31  $\mu$ A

### Run Number:

5512

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events \_\_\_\_\_

Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

\_\_\_\_\_

Max NPS anode current (single crystal)

( $\mu$ A)

### Run Number:

5513

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

9:13

Stop time (from RC):

9:58

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

3.23e5

hTRIG3 rate

40

hTRIG4 rate

268

hTRIG5 rate

60

hTRIG6 rate

46.2

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 351K

Charge 39.13mC

Active trigger LiveTime fraction (NPS Scaler Gui)

100

Max NPS anode current (single crystal)

4.91  $\mu$ A

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/03  
yy mm dd

Initials: T-Sing

Use a separate sheet for each configuration.

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: elastic

HMS, field, current OK?  
 yes  no

**Kinematics: KinC\_x**  
Elastic

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2/1

Beam position and angle on target:

HMS 37-74  
 p: 0.4 (TV): 22  
From GUI Nearest 0.005

SHMS 36-83  
 (TV): 37  
Nearest 0.005

NPS 20-53  
 $\theta$  = SHMS 21.66  
 -16.30° Nearest 0.005

3H07A	X	Y
1.2	mm	0.3
Nomin:		Nomin:
3H07C	X	Y
0.7	mm	0.3
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 46 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5514</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>10:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.59</u>	hTRIG3 rate <u>77.9</u>	hTRIG4 rate <u>95.7</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A			Stop time (from RC): <u>11:30</u>		hTRIG5 rate <u>45.2</u>	hTRIG6 rate <u>Fl. L</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>1/3 #</u>	Events <u>826</u> Charge <u>41.91 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>4.85</u> ( $\mu$ A)			

Run Number: <u>5515</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>11:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.54</u>	hTRIG3 rate <u>75</u>	hTRIG4 rate <u>45</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A			Stop time (from RC): <u>12:05</u>		hTRIG5 rate <u>43</u>	hTRIG6 rate <u>40</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2/3 #</u>	Events <u>856</u> Charge <u>42.42 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>5.06</u> ( $\mu$ A)			

Run Number: <u>5516</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>12:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.52</u>	hTRIG3 rate <u>73</u>	hTRIG4 rate <u>49</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A			Stop time (from RC): <u>12:38</u>		hTRIG5 rate <u>43</u>	hTRIG6 rate <u>40</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>3/3</u>	Events <u>836</u> Charge <u>41.74 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>4.98</u> ( $\mu$ A)			

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)			

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 04 03  
yy mm dd

Initials: TS<sup>ang</sup>

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: elastic

HMS, field, current OK?

yes  no

Kinematics: KinC\_x  
Elastic

E<sub>beam</sub>: 6.268 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS 2-138  
p: 4.44 From GUI  
 $\theta$ (TV): 57.72  
Nearest 0.005

SHMS  
 $\theta$ (TV): 36.83  
Nearest 0.005

NPS  
 $\theta$  = SHMS 20.53  
-16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 4.0 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5517</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>1</u> PS3: <u>0</u> PS4: <u>0</u> PS5: <u>7</u> PS6: <u>7</u>	Start time (from RC): <u>13:09</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>4976</u>	hTRIG3 rate <u>0</u>	hTRIG4 rate <u>0</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A			Stop time (from RC): <u>13:40</u>		hTRIG5 rate <u>10</u>	hTRIG6 rate <u>6</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>21K</u> Charge <u>745</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.11</u>
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Run Number: <u>5518</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>7</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>7</u> PS6: <u>7</u>	Start time (from RC): <u>13:46</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>523</u>	hTRIG3 rate <u>15</u>	hTRIG4 rate <u>11</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A			Stop time (from RC): <u>14:17</u>		hTRIG5 rate <u>10</u>	hTRIG6 rate <u>10</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Raster: 4x4 mm</u>	Events <u>21K</u> Charge <u>850</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>1.94</u>
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Run Number: <u>5519</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>7</u> PS6: <u>7</u>	Start time (from RC): <u>14:27</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.865</u>	hTRIG3 rate <u>26.3</u>	hTRIG4 rate <u>51.4</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A			Stop time (from RC): <u>14:52</u>		hTRIG5 rate <u>502</u>	hTRIG6 rate <u>4.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>30K</u> Charge <u>225</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>9.44</u>
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Run Number: <u>5520</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>7</u> PS6: <u>7</u>	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 29 / 01 / 03  
yy mm dd

Initials: TS

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: *elastic*

HMS, field, current OK?

yes  no

Kinematics: KinC\_x \_\_\_\_\_  
*Elastic*

E<sub>beam</sub>: *6.34* GeV

Raster:  On  Off  
Size: *2.2 mm*

Beam position and angle on target:

3H07A	X	Y
<i>1.7</i> mm	<i>0.5</i> mm	
Nomin:		Nomin:
3H07C	X	Y
<i>0.2</i> mm	<i>0.3</i> mm	
Nomin:		Nomin:

HMS *2.632*  
p: ~~+~~ ~~0~~  $\theta$ (TV): *37.22*  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): *36.85*  
Nearest 0.005

NPS  
 $\theta$  = SHMS *20.57*  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = *40* Amp  
NPS Upstream Corr. I = *0* Amp  
NPS Upstream Corr. I = *0* Amp

Run Number: <i>5521</i>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <i>1</i> PS2: <i>1</i> PS3: <i>1</i> PS4: <i>0</i> PS5: <i>1</i> PS6: <i>1</i>	Start time (from RC): <i>14:49</i> Stop time (from RC): <i>15:27</i>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <i>1.10e5</i> hTRIG5 rate: <i>11</i>	hTRIG3 rate: <i>27.21</i> hTRIG6 rate: <i>10.2</i>	hTRIG4 rate: <i>13r</i> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <i>Raster: 4x4 mm</i>	Events: <i>28k</i> Charge: <i>41C</i>	Active trigger LiveTime fraction (NPS Scaler Gui): <i>100</i>	Max NPS anode current (single crystal) ( $\mu$ A): <i>2.51</i>
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Run Number: <i>5522</i>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <i>1</i> PS2: <i>1</i> PS3: <i>1</i> PS4: <i>0</i> PS5: <i>1</i> PS6: <i>1</i>	Start time (from RC): <i>15:38</i> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <i>1.81e6</i> hTRIG5 rate: <i>49</i>	hTRIG3 rate: <i>12k</i> hTRIG6 rate: <i>16</i>	hTRIG4 rate: <i>29</i> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events: <i>C</i> Charge: <i>C</i>	Active trigger LiveTime fraction (NPS Scaler Gui): <i>100</i>	Max NPS anode current (single crystal) ( $\mu$ A): <i>9.27</i>
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Run Number: <i>5523</i>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <i>1</i> PS2: <i>1</i> PS3: <i>1</i> PS4: <i>0</i> PS5: <i>1</i> PS6: <i>1</i>	Start time (from RC): <i>16:41</i> Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <i>1.62e+06</i> hTRIG5 rate:	hTRIG3 rate: hTRIG6 rate:	hTRIG4 rate: <input type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <i>JUNK</i>	Events: <i>C</i> Charge: <i>C</i>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal) ( $\mu$ A):
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Run Number: <i>5524</i>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <i>1</i> PS2: <i>1</i> PS3: <i>1</i> PS4: <i>0</i> PS5: <i>1</i> PS6: <i>1</i>	Start time (from RC): <i>17:13</i> Stop time (from RC): <i>17:59</i>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <i>1.02e+06</i> hTRIG5 rate: <i>150</i>	hTRIG3 rate: <i>457.4</i> hTRIG6 rate: <i>67.2</i>	hTRIG4 rate: <i>116.3</i> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events: <i>C</i> Charge: <i>C</i>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal) ( $\mu$ A):
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/03  
yy mm dd

Initials: af

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Kinematics: KinC\_x \_\_\_\_\_

E<sub>beam</sub>: 6.368 GeV  
~~1.719~~

Raster:  On  Off  
Size: 2 mm

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

HMS

p: +0.1719 From GUI  
 $\theta$ (TV): 39.81  
Nearest 0.005

SHMS

$\theta$ (TV): 30.7  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5525</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.51e<sup>06</sup></u>	hTRIG3 rate <u>466</u>	hTRIG4 rate <u>113</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments:		Stop time (from RC):		hTRIG5 rate <u>177</u>	hTRIG6 rate <u>63</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>23000</u> Charge _____ C		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)			

Run Number: <u>5526</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5e<sup>06</sup></u>	hTRIG3 rate <u>470</u>	hTRIG4 rate <u>123</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments:		Stop time (from RC):		hTRIG5 rate <u>176</u>	hTRIG6 rate <u>66.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events _____ Charge _____ C		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)			

Run Number: <u>5527</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.37e<sup>06</sup></u>	hTRIG3 rate <u>459</u>	hTRIG4 rate <u>118</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments:		Stop time (from RC): <u>19:40</u>		hTRIG5 rate <u>182</u>	hTRIG6 rate <u>64.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>199000</u> Charge _____ C		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)			

Run Number: <u>5528</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments:		Stop time (from RC): <u>20:01</u>		hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>85000</u> Charge _____ C		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	Small run, no beam for 15 minutes		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/03  
yy mm dd

Initials: A. Hough

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Kinematics: KinC\_x

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2\*2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm	<u>0.29</u> mm	
Nomin:		Nomin:

HMS

p: +0.1719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.7  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large   
Sieve

NPS Sweep Magnet  
I = 468 Amp

NPS Upstream Corr.  
I = 0 Amp

NPS Upstream Corr.  
I = \_\_\_\_\_ Amp

Run Number:

5529

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

20:02

Stop time (from RC):

20:34

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

4.024e+06

hTRIG3 rate

480

hTRIG4 rate

41.5

hTRIG5 rate

163.7

hTRIG6 rate

58.9

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 200,000

Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

Run Number:

5530

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

20:36

Stop time (from RC):

21:10

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.09e+06

hTRIG3 rate

481

hTRIG4 rate

150

hTRIG5 rate

167

hTRIG6 rate

65

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 187,000

Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

Run Number:

5531

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

21:12

Stop time (from RC):

21:43

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.39e+06

hTRIG3 rate

454

hTRIG4 rate

116

hTRIG5 rate

169

hTRIG6 rate

63

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 200,000

Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

Run Number:

5532

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

21:44

Stop time (from RC):

22:39

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.39e+06

hTRIG3 rate

454

hTRIG4 rate

120

hTRIG5 rate

170

hTRIG6 rate

70

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

No beam for 15 minutes

Events 288,350

Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/03  
yy mm dd

Initials: A. Hoogh

Use a separate sheet for each configuration.

Kinematics: KinC\_x

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

HMS  
 p: +0.1713 From GUI  
 $\theta$ (TV): 39.81  
 Nearest 0.005

SHMS  
 $\theta$ (TV): 30.7  
 Nearest 0.005

NPS  
 $\theta$  = SHMS 14.4  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5533  
 I<sub>beam</sub>: 12  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC): 22:41  
 Stop time (from RC): 23:03

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 6.45e+05  
 hTRIG3 rate: 321.6  
 hTRIG4 rate: 89.9  
 hTRIG5 rate: 81.6  
 hTRIG6 rate: 47.9

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: \_\_\_\_\_

Events 119,000 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Charge C Max NPS anode current (single crystal) \_\_\_\_\_ ( $\mu$ A)

Run Number: 5534  
 I<sub>beam</sub>: 9  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC): 23:06  
 Stop time (from RC): 23:37

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 4.72e+05  
 hTRIG3 rate: 263  
 hTRIG4 rate: 78.9  
 hTRIG5 rate: 61.2  
 hTRIG6 rate: 44.7

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: \_\_\_\_\_

Events 137,000 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Charge C Max NPS anode current (single crystal) \_\_\_\_\_ ( $\mu$ A)

Run Number: 5535  
 I<sub>beam</sub>: 18  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 2  
 PS5: -1  
 PS6: -1

Start time (from RC): 23:40  
 Stop time (from RC): 00:05

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: \_\_\_\_\_  
 hTRIG3 rate: \_\_\_\_\_  
 hTRIG4 rate: \_\_\_\_\_  
 hTRIG5 rate: \_\_\_\_\_  
 hTRIG6 rate: \_\_\_\_\_

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: \_\_\_\_\_

Events 41K Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Charge 1.7C Max NPS anode current (single crystal) \_\_\_\_\_ ( $\mu$ A)

Run Number: 5536  
 I<sub>beam</sub>: 18  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC): 00:20  
 Stop time (from RC): 00:31

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.1 x 10<sup>6</sup>  
 hTRIG3 rate: 970.6  
 hTRIG4 rate: 153.1  
 hTRIG5 rate: 237.6  
 hTRIG6 rate: 67.4

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: \_\_\_\_\_

Events \_\_\_\_\_ Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
 Charge 0.16C Max NPS anode current (single crystal) 18.64 ( $\mu$ A)



# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/09  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Kinematics: KinC\_x 60-1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.1719 From GUI  $\theta$ (TV): 39.81 Nearest 0.005

$\theta$ (TV): 30.7 Nearest 0.005

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 4.68 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5537</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>00:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3x10<sup>6</sup></u>	hTRIG3 rate <u>960.8</u>	hTRIG4 rate <u>150.6</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A			Stop time (from RC): <u>01:05</u>		hTRIG5 rate <u>250.7</u>	hTRIG6 rate <u>71.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>&gt;86K</u> Charge <u>216.2<sup>m</sup></u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>18.77</u> ( $\mu$ A)		

Run Number: <u>5538</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>01:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.0x10<sup>6</sup></u>	hTRIG3 rate <u>986.9</u>	hTRIG4 rate <u>166.8</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A			Stop time (from RC): <u>01:41</u>		hTRIG5 rate <u>231.0</u>	hTRIG6 rate <u>63.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>292K</u> Charge <u>313.0<sup>m</sup></u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>18.16</u> ( $\mu$ A)		

Run Number: <u>5539</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>01:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.83x10<sup>6</sup></u>	hTRIG3 rate <u>1140</u>	hTRIG4 rate <u>196.6</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>02:29</u>		hTRIG5 rate <u>465.2</u>	hTRIG6 rate <u>98.1</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Junk</u>		Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>16.17</u> ( $\mu$ A)		

Run Number: <u>5540</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>01:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.83x10<sup>6</sup></u>	hTRIG3 rate <u>1140</u>	hTRIG4 rate <u>196.6</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>02:29</u>		hTRIG5 rate <u>465.2</u>	hTRIG6 rate <u>98.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>283K</u> Charge <u>18.5C<sup>m</sup></u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>16.17</u> ( $\mu$ A)		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/04  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Kinematics: KinC\_x 60-1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.85	mm	0.32
Nomin:		Nomin:
3H07C	X	Y
0.75	mm	0.30
Nomin:		Nomin:

HMS

p: +0.1719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.7  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5541	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): 02=31 Stop time (from RC): 03=03	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.84x10 <sup>6</sup> hTRIG5 rate: 498.9	hTRIG3 rate: 1149.4 hTRIG6 rate: 101.1	hTRIG4 rate: 204.8 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events 358K Charge 17.04C	Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%	Max NPS anode current (single crystal) 10.48 $\mu$ A
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Run Number: 5542	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): 03=04 Stop time (from RC): 03=33	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.87x10 <sup>6</sup> hTRIG5 rate: 478.8	hTRIG3 rate: 1135 hTRIG6 rate: 107.1	hTRIG4 rate: 198.7 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events 304K Charge 14.47C	Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%	Max NPS anode current (single crystal) 10.38 $\mu$ A
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Run Number: 5543	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): 03=51 Stop time (from RC): 04=25	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.87x10 <sup>6</sup> hTRIG5 rate: 503.7	hTRIG3 rate: 1164.7 hTRIG6 rate: 102.6	hTRIG4 rate: 201.5 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	---	--	---	---	---	---	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events 364K Charge 17.39C	Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%	Max NPS anode current (single crystal) 10.25 $\mu$ A
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Run Number: 5544	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): 04=26 Stop time (from RC): 04=58	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.84x10 <sup>6</sup> hTRIG5 rate: 466.3	hTRIG3 rate: 1143.9 hTRIG6 rate: 111.3	hTRIG4 rate: 204.4 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	---	--	---	---	---	---	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events 362K Charge 17.56C	Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%	Max NPS anode current (single crystal) 10.62 $\mu$ A
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 09 / 04  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Kinematics: KinC\_x 60-1

E<sub>beam</sub>: 6.268 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u>	mm	<u>0.30</u>
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u>	mm	<u>0.31</u>
Nomin:		Nomin:

HMS  
 p: +0.719 (TV): 39.81  
From GUI Nearest 0.005

SHMS  
 (TV): 30.7  
Nearest 0.005

NPS  
 $\theta =$  SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5545</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.85x10<sup>6</sup></u>	hTRIG3 rate <u>1174</u>	hTRIG4 rate <u>192.5</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>05:33</u>		hTRIG5 rate <u>499.9</u>	hTRIG6 rate <u>107.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>362K</u> Charge <u>7.50C</u>	Active trigger fraction (NPS Scaler Gui) <u>99.96%</u>	LiveTime <u>99.96%</u>	Max NPS anode current (single crystal) <u>10.27</u> ( $\mu$ A)	

Run Number: <u>5546</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.84x10<sup>6</sup></u>	hTRIG3 rate <u>1130</u>	hTRIG4 rate <u>200.3</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>06:16</u>		hTRIG5 rate <u>472.2</u>	hTRIG6 rate <u>112.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>357K</u> Charge <u>6.40C</u>	Active trigger fraction (NPS Scaler Gui) <u>99.99%</u>	LiveTime <u>99.99%</u>	Max NPS anode current (single crystal) <u>10.07</u> ( $\mu$ A)	

Run Number: <u>5547</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.83x10<sup>6</sup></u>	hTRIG3 rate <u>1145.9</u>	hTRIG4 rate <u>195.2</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>06:51</u>		hTRIG5 rate <u>473.2</u>	hTRIG6 rate <u>97.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>354K</u> Charge <u>6.02C</u>	Active trigger fraction (NPS Scaler Gui) <u>99.97%</u>	LiveTime <u>99.97%</u>	Max NPS anode current (single crystal) <u>10.52</u> ( $\mu$ A)	

Run Number: <u>5548</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.87x10<sup>6</sup></u>	hTRIG3 rate <u>1136.2</u>	hTRIG4 rate <u>187.4</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>07:30</u>		hTRIG5 rate <u>424.6</u>	hTRIG6 rate <u>109.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>379K</u> Charge <u>7.60C</u>	Active trigger fraction (NPS Scaler Gui) <u>99.99%</u>	LiveTime <u>99.99%</u>	Max NPS anode current (single crystal) <u>10.70</u> ( $\mu$ A)	

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/04  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Kinematics: KinC\_x 60.1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.86</u> mm		<u>0.71</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

HMS

p: +0.1719 (TV): 39.8  
From GUI Nearest 0.005

SHMS

(TV): 30.7  
Nearest 0.005

NPS

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large   
Sieve

NPS Sweep Magnet  
I = 46.8 Amp

NPS Upstream Corr.  
I = 0 Amp

NPS Upstream Corr.  
I = \_\_\_\_\_ Amp

Run Number:

5549

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.i.

PS1: 1  
PS2: 1  
PS3: 1  
PS4: 0  
PS5: 1  
PS6: 1

Start time (from RC):

07:31

Stop time (from RC):

08:04

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.82x10<sup>6</sup>

hTRIG3 rate

1157.1

hTRIG4 rate

201.2

hTRIG5 rate

477.5

hTRIG6 rate

102.9

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

10/15

Events 345  
Charge 187 C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

10.04 ( $\mu$ A)

Run Number:

5550

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.i.

PS1: 1  
PS2: 1  
PS3: 1  
PS4: 0  
PS5: 1  
PS6: 1

Start time (from RC):

8:05

Stop time (from RC):

8:36

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.84e6

hTRIG3 rate

1177

hTRIG4 rate

97

hTRIG5 rate

503

hTRIG6 rate

104

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

11/15

Events 368  
Charge 187 C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

9.85 ( $\mu$ A)

Run Number:

5553

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.i.

PS1: 1  
PS2: 1  
PS3: 1  
PS4: 0  
PS5: 1  
PS6: 1

Start time (from RC):

14:46

Stop time (from RC):

15:18

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.73e6

hTRIG3 rate

1109

hTRIG4 rate

183

hTRIG5 rate

478

hTRIG6 rate

108

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

12/15

Events 356  
Charge 187 C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

9.85 ( $\mu$ A)

Run Number:

5554

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.i.

PS1: 1  
PS2: 1  
PS3: 1  
PS4: 0  
PS5: 1  
PS6: 1

Start time (from RC):

15:19

Stop time (from RC):

15:51

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.79e6

hTRIG3 rate

1154

hTRIG4 rate

208

hTRIG5 rate

474

hTRIG6 rate

95.9

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

13/15

Events 345  
Charge 160 C

Active trigger LiveTime fraction (NPS Scaler Gui)

60

Max NPS anode current (single crystal)

9.9 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 04 Initials: J.S.

Use a separate sheet for each configuration.

Kinematics: KinC\_x KinC\_x 6-1

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
1.2 mm		0.3 mm
Nomin:		Nomin:
3H07C	X	Y
0.7 mm		0.3 mm
Nomin:		Nomin:

HMS  
p: +1.719  $\theta$ (TV): 39.8  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 30.7  
Nearest 0.005

NPS  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 4.8 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5555	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 15:52 Stop time (from RC): 16:22	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.80e6 hTRIG5 rate: 457	hTRIG3 rate: 1109 hTRIG6 rate: 102	hTRIG4 rate: 197 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 14/15  
Events: 324 Charge: 4.6  
Active trigger LiveTime fraction (NPS Scaler Gui): 100  
Max NPS anode current (single crystal): 0.2  $\mu$ A

Run Number: 5556	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 16:23 Stop time (from RC): 17:17	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.7x10 <sup>6</sup> hTRIG5 rate: 466	hTRIG3 rate: 1101 hTRIG6 rate: 98.6	hTRIG4 rate: 191 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 1.5/15 stopped early w/beam  
Events: 285 Charge: 9.8  
Active trigger LiveTime fraction (NPS Scaler Gui): 100  
Max NPS anode current (single crystal): 10.4  $\mu$ A

Run Number: 5557	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 17:30 Stop time (from RC): 17:50	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.1x10 <sup>6</sup> hTRIG5 rate: 225	hTRIG3 rate: 814 hTRIG6 rate: 68	hTRIG4 rate: 164 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 7 MA run  
Events: 175 Charge: 7.9  
Active trigger LiveTime fraction (NPS Scaler Gui): 100  
Max NPS anode current (single crystal): 6.93  $\mu$ A

Run Number: 5558	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: _____ PS2: _____ PS3: _____ PS4: 0 PS5: _____ PS6: _____	Start time (from RC): 17:52 Stop time (from RC): 18:22	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 8x10 <sup>5</sup> hTRIG5 rate: 40	hTRIG3 rate: 614 hTRIG6 rate: 40	hTRIG4 rate: 68 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 5 MA run  
Events: 22 Charge: C  
Active trigger LiveTime fraction (NPS Scaler Gui): 100  
Max NPS anode current (single crystal):  $\mu$ A

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 4 / 4  
yy mm dd

Initials: SAW

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: \_\_\_\_\_

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS  
 p: +0.16719 θ(TV): 39.8  
From GUI Nearest 0.005

SHMS  
 θ(TV): 30.7  
Nearest 0.005

NPS  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 4.8 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5559</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:27</u> Stop time (from RC): <u>18:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.76x10<sup>6</sup></u> hTRIG5 rate: <u>490</u>	hTRIG3 rate: <u>1108</u> hTRIG6 rate: <u>101</u>	hTRIG4 rate: <u>205</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>coin, 10μA PS4 = 2</u>		Events <u>60k</u> Charge <u>6.0</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>10</u> (μA)		

Run Number: <u>5560</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:52</u> Stop time (from RC): <u>19:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.2x10<sup>6</sup></u> hTRIG5 rate: <u>154</u>	hTRIG3 rate: <u>453</u> hTRIG6 rate: <u>64</u>	hTRIG4 rate: <u>114</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>1/8 LH2</u>		Events <u>193</u> Charge <u>17.3</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>10.5</u> (μA)		

Run Number: <u>5561</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:23</u> Stop time (from RC): <u>20:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.2x10<sup>6</sup></u> hTRIG5 rate: <u>144</u>	hTRIG3 rate: <u>469</u> hTRIG6 rate: <u>60</u>	hTRIG4 rate: <u>123</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>2/8</u>		Events <u>196k</u> Charge <u>28.3</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>10.5</u> (μA)		

Run Number: <u>5562</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:54</u> Stop time (from RC): <u>20:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.3x10<sup>6</sup></u> hTRIG5 rate: <u>170</u>	hTRIG3 rate: <u>501</u> hTRIG6 rate: <u>58</u>	hTRIG4 rate: <u>122</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>3/8</u>		Events <u>228k</u> Charge <u>33.2</u>	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal): _____ (μA)		

# p(e,e') p Run Sheet

hallcweb.llab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/9/4  
yy mm dd

Initials: SAW

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 0.368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.1714 From GUI θ(TV): 39.5 Nearest 0.005

**SHMS**  
θ(TV): 30.7 Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.8</u> mm		<u>29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.73</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5563</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>20:28</u> Stop time (from RC): <u>21:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2x10<sup>6</sup></u> hTRIG5 rate <u>147</u>	hTRIG3 rate <u>454</u> hTRIG6 rate <u>61</u>	hTRIG4 rate <u>114</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>4/8</u>	Events <u>205K</u> Charge <u>295C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5564</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:01</u> Stop time (from RC): <u>21:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.25x10<sup>6</sup></u> hTRIG5 rate <u>157</u>	hTRIG3 rate <u>477</u> hTRIG6 rate <u>65</u>	hTRIG4 rate <u>118</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>5/8</u>	Events <u>205K</u> Charge <u>296C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5565</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:34</u> Stop time (from RC): <u>22:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2x10<sup>6</sup></u> hTRIG5 rate <u>143</u>	hTRIG3 rate <u>460</u> hTRIG6 rate <u>59</u>	hTRIG4 rate <u>122</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6/8</u>	Events <u>255K</u> Charge <u>270C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA) <u>10.18</u>
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Run Number: <u>5566</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:13</u> Stop time (from RC): <u>22:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.4x10<sup>6</sup></u> hTRIG5 rate <u>158</u>	hTRIG3 rate <u>463</u> hTRIG6 rate <u>64</u>	hTRIG4 rate <u>110</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>7/8</u>	Events <u>27K</u> Charge <u>7.19C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA) <u>10.22</u>
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/4  
 yy mm dd

Initials: AW

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-7

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

**HMS**  
 p: +0.719 θ(TV): 39.8  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.7  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.8</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 4.68 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5567  
 I<sub>beam</sub>: 18 μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1  
 Start time (from RC): 22:36 Stop time (from RC): 23:12  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 1.3x10<sup>6</sup> hTRIG3 rate: 465 hTRIG4 rate: 120  
 hTRIG5 rate: 165 hTRIG6 rate: 67  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 8/8  
 Events 237K Charge 33.7C  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100  
 Max NPS anode current (single crystal) (μA): 10.3

Run Number: 5568  
 I<sub>beam</sub>: 12 μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1  
 Start time (from RC): 23:13 Stop time (from RC): 23:37  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 6.6x10<sup>5</sup> hTRIG3 rate: 327 hTRIG4 rate: 86  
 hTRIG5 rate: 82 hTRIG6 rate: 45  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 12 μA run  
 Events 122 Charge 4.8C  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100  
 Max NPS anode current (single crystal) (μA): 6.7

Run Number: 5569  
 I<sub>beam</sub>: 9 μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: -1  
 Start time (from RC): 23:38 Stop time (from RC): 00:26  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 4.6x10<sup>5</sup> hTRIG3 rate: 253 hTRIG4 rate: 82  
 hTRIG5 rate: 63 hTRIG6 rate: 44  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 9 μA run, stopped due to no beam  
 Events 168K Charge 7.32C  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100  
 Max NPS anode current (single crystal) (μA): 5.2

Run Number: 5570  
 I<sub>beam</sub>: 9 μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: 1 PS2: 1 PS3: -1 PS4: 0 PS5: 1 PS6: -1  
 Start time (from RC): 00:32 Stop time (from RC): 00:49  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 6.87x10<sup>5</sup> hTRIG3 rate: 266.7 hTRIG4 rate: 77.7  
 hTRIG5 rate: 83.9 hTRIG6 rate: 45.2  
 Data ok  Junk

coin\_sparse  in  coin\_sparse\_low   
 Comments: 9 μA make up run  
 Events 71K Charge 7.32C  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
 Max NPS anode current (single crystal) (μA): 5.49



# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/ndex.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/09/05  
yy mm dd

Initials: PJZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-1

E<sub>beam</sub>: 6.268 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.76</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

**HMS**  
p: +0.719 From GUI  
θ(TV): 39.8 Nearest 0.005

**SHMS**  
θ(TV): 30.7 Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 4.68 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5571  
I<sub>beam</sub>: 18 μA

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>00:52</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>1.39 × 10<sup>6</sup></u>	hTRIG3 rate: <u>454.7</u>	hTRIG4 rate: <u>119.1</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>01:09</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>172.9</u>	hTRIG6 rate: <u>68.0</u>	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>2</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/> _____	PS6: <u>-1</u>					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 18 μA run  
Events 36K  
Charge 5.9 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 10.37 (μA)

Run Number: 5572  
I<sub>beam</sub>: 18 μA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>01:17</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.42 × 10<sup>6</sup></u>	hTRIG3 rate: <u>967.1</u>	hTRIG4 rate: <u>157.8</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>01:28</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>604.2</u>	hTRIG6 rate: <u>118.9</u>	<input checked="" type="checkbox"/> Data ok
<input checked="" type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/> _____	PS6: <u>-1</u>					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 10 min, 18 μA run  
Events 102K  
Charge 11.3 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
Max NPS anode current (single crystal) 18.15 (μA)

Run Number: 5573  
I<sub>beam</sub>: 18 μA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>01:29</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.46 × 10<sup>6</sup></u>	hTRIG3 rate: <u>938.9</u>	hTRIG4 rate: <u>157.1</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>02:02</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>657.1</u>	hTRIG6 rate: <u>118.4</u>	<input checked="" type="checkbox"/> Data ok
<input checked="" type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/> _____	PS6: <u>-1</u>					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 1st 30 min, 18 μA run  
Events 287K  
Charge 3.14 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
Max NPS anode current (single crystal) 18.42 (μA)

Run Number: 5574  
I<sub>beam</sub>: 18 μA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>02:03</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.91 × 10<sup>6</sup></u>	hTRIG3 rate: <u>950.2</u>	hTRIG4 rate: <u>149.4</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>02:34</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>613.4</u>	hTRIG6 rate: <u>120.7</u>	<input checked="" type="checkbox"/> Data ok
<input checked="" type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/> _____	PS6: <u>-1</u>					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 2nd 30 min, 18 μA run  
Events 261K  
Charge 2.79 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
Max NPS anode current (single crystal) 17.55 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.llab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 05  
 yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.76</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +17 1.719 θ(TV): 39.8  
From GUI Nearest 0.005

θ(TV): 30.7  
Nearest 0.005

θ = SHMS 14.4  
 -16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5575</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02=43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.87x10<sup>6</sup></u>	hTRIG3 rate <u>1157.5</u>	hTRIG4 rate <u>198.8</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>1st 30 min 10 μA run</u>		Stop time (from RC): <u>03=26</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>495.8</u>	hTRIG6 rate <u>111.9</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>370k</u> Charge <u>6.74C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.51</u> (μA)				

Run Number: <u>5576</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03=28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.85x10<sup>6</sup></u>	hTRIG3 rate <u>1163.0</u>	hTRIG4 rate <u>199.5</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>2nd 30 min 10 μA run</u>		Stop time (from RC): <u>4=00</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>476.0</u>	hTRIG6 rate <u>101.5</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>351k</u> Charge <u>6.88C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98%</u>	Max NPS anode current (single crystal) <u>9.76</u> (μA)				

Run Number: <u>5577</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04=01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.84x10<sup>6</sup></u>	hTRIG3 rate <u>1152.9</u>	hTRIG4 rate <u>200</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>3rd 30 min 10 μA run</u>		Stop time (from RC): <u>04=33</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>507.7</u>	hTRIG6 rate <u>110.6</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>352k</u> Charge <u>7.16C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98%</u>	Max NPS anode current (single crystal) <u>12.16</u> (μA)				

Run Number: <u>5578</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04=34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.77x10<sup>6</sup></u>	hTRIG3 rate <u>1094.1</u>	hTRIG4 rate <u>187.5</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>4th 30 min 10 μA run</u>		Stop time (from RC): <u>05=06</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>462.4</u>	hTRIG6 rate <u>98.4</u>	
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>350k</u> Charge <u>7.06C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.61</u> (μA)				

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24 / 04 / 05  
 yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
 p: +0.1719 θ(TV): 39.8  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.7  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5579</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05=07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.81 × 10<sup>6</sup></u>	hTRIG3 rate <u>1137.1</u>	hTRIG4 rate <u>200.3</u>
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC): <u>05=50</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>477.5</u>	hTRIG6 rate <u>102.9</u>	

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: 5th 30min, 10μA run  
 Events 392K Charge 7.66C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
 Max NPS anode current (single crystal) 9.22 (μA)

Run Number: <u>5580</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05=51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.78 × 10<sup>6</sup></u>	hTRIG3 rate <u>1167.5</u>	hTRIG4 rate <u>199.5</u>
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC): <u>06=22</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>471.9</u>	hTRIG6 rate <u>106.2</u>	

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: 6th 30min, 10μA run  
 Events 350K Charge 7.26C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
 Max NPS anode current (single crystal) 9.89 (μA)

Run Number: <u>5581</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06=23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.83 × 10<sup>6</sup></u>	hTRIG3 rate <u>1138.6</u>	hTRIG4 rate <u>201.5</u>
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC): <u>06=56</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>462.2</u>	hTRIG6 rate <u>105.1</u>	

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: 7th 30min, 10μA run  
 Events 351K Charge 6.76C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.98%  
 Max NPS anode current (single crystal) 9.89 (μA)

Run Number: <u>5582</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06=57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.81 × 10<sup>6</sup></u>	hTRIG3 rate <u>1154.4</u>	hTRIG4 rate <u>198.5</u>
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC): <u>07=29</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>484.0</u>	hTRIG6 rate <u>101.6</u>	

coin\_sparse   
 oin   
 coin\_sparse\_low   
 Comments: 8th 30min, 10μA run  
 Events 351K Charge 6.76C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.98%  
 Max NPS anode current (single crystal) 9.41 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 05  
 yy mm dd

Initials: PSL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
 p: +01.719 θ(TV): 39.8  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.7  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 4.68 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5583</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.80x10<sup>6</sup></u>	hTRIG3 rate <u>1105.1</u>	hTRIG4 rate <u>191.9</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>07:43</u>		hTRIG5 rate <u>492.0</u>	hTRIG6 rate <u>105.0</u>	<input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>9th 30min, 10μA run</u> <u>Stopped for rebooting rate.</u> <u>Junk!</u>		Events <u>2715</u> Charge <u>6.05</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.34</u> (μA)		

Run Number: <u>5584</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.70x10<sup>6</sup></u>	hTRIG3 rate <u>1146.</u>	hTRIG4 rate <u>206.6</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>08:34</u>		hTRIG5 rate <u>437.4</u>	hTRIG6 rate <u>106.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>9th 30min, 10μA run</u>		Events <u>330K</u> Charge <u>_____</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>9.54</u> (μA)		

Run Number: <u>5585</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.70x10<sup>6</sup></u>	hTRIG3 rate <u>1149</u>	hTRIG4 rate <u>215.5</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>09:09</u>		hTRIG5 rate <u>453</u>	hTRIG6 rate <u>200.5</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>10th 30min, 10μA run</u>		Events <u>358K</u> Charge <u>_____</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>_____</u> (μA)		

Run Number: <u>5586</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>09:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>09:50</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>11th 30min, 10μA run</u>		Events <u>370K</u> Charge <u>_____</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>_____</u> (μA)		

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/05  
 yy mm dd

Initials: A. Hough

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>2.16</u>	mm	<u>0.76</u>
Nomin:		Nomin:
3H07C	X	Y
<del>1.18</del>	mm	<u>0.85</u>
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1719 θ(TV): 39.8  
From GUI Nearest 0.005

θ(TV): 30.7  
Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 4.62 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5588</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:00</u>	Stop time (from RC): <u>10:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.68e<sup>06</sup></u>	hTRIG3 rate <u>1129</u>	hTRIG4 rate <u>193</u>
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>12th 30 min, 10 μA run</u>			Events <u>376k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)		

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>5589</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:35</u>	Stop time (from RC): <u>11:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.68e<sup>06</sup></u>	hTRIG3 rate <u>1140</u>	hTRIG4 rate <u>201</u>
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>13th 30 min, 10 μA run</u>			Events <u>329k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)		

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>5590</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:08</u>	Stop time (from RC): <u>11:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.62e<sup>06</sup></u>	hTRIG3 rate <u>1140</u>	hTRIG4 rate <u>193</u>
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>14th 30 min, 10 μA run</u>			Events <u>367k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)		

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>5591</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:41</u>	Stop time (from RC): <u>12:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>15th 30 min, 10 μA run</u>			Events <u>382k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)		

coin\_sparse   
 coin   
 coin\_sparse\_low

# p(e,e'γ)p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/05  
yy mm dd

Initials: A. Hough

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>2.21</u> mm		<u>0.75</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>1.19</u> mm		<u>0.87</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1719 θ(TV): 30.7  
From GUI Nearest 0.005

θ(TV): 30.7  
Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5592</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:19</u> Stop time (from RC): <u>12:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.08 · 10<sup>6</sup></u> hTRIG5 rate <u>232</u>	hTRIG3 rate <u>823</u> hTRIG6 rate <u>67</u>	hTRIG4 rate <u>151</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>↓ 20 min, 7μA run</u>	Events <u>186k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5593</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:42</u> Stop time (from RC): <u>13:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>↓ 30 min, 5μA run</u>	Events <u>210k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5594</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:18</u> Stop time (from RC): <u>13:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 20k <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.72e<sup>+06</sup></u> hTRIG5 rate <u>446</u>	hTRIG3 rate <u>1142</u> hTRIG6 rate <u>100</u>	hTRIG4 rate <u>206</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>↓ 15 min, 10μA run</u>	Events <u>72k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)
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Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/05  
yy mm dd

Initials: A. Hoogh

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.79</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.719 From GUI θ(TV): 30.7 Nearest 0.005

θ(TV): 30.7 Nearest 0.005

θ = SHMS 14.4 Nearest 0.005  
-16.30°

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5595</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:54</u> Stop time (from RC): <u>14:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.14 · 10<sup>6</sup></u> hTRIG5 rate: <u>152</u>	hTRIG3 rate: <u>461</u> hTRIG6 rate: <u>58.4</u>	hTRIG4 rate: <u>120</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>1st 30 min, 18 μA run</u>	Events <u>219k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5596</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:27</u> Stop time (from RC): <u>15:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.07 · 10<sup>6</sup></u> hTRIG5 rate: <u>145</u>	hTRIG3 rate: <u>458</u> hTRIG6 rate: <u>62</u>	hTRIG4 rate: <u>116</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2nd 30 min, 18 μA run</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5597</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:12</u> Stop time (from RC): <u>15:43</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.16 · 10<sup>6</sup></u> hTRIG5 rate: <u>160</u>	hTRIG3 rate: <u>468</u> hTRIG6 rate: <u>64</u>	hTRIG4 rate: <u>122</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>3rd 30 min, 18 μA run</u>	Events <u>195k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5598</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:45</u> Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: _____ hTRIG5 rate: _____	hTRIG3 rate: _____ hTRIG6 rate: _____	hTRIG4 rate: _____ <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>4th 30 min, 18 μA run</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/09/05  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- -1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS -16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5599</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1617</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate: <u>1.10e+06</u>	hTRIG3 rate: <u>465</u>	hTRIG4 rate: <u>122</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC):		hTRIG5 rate: <u>146</u>	hTRIG6 rate: <u>56</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>5/8</u>		Events <u>20760</u>	Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.41</u> (μA)	

Run Number: <u>5600</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1650</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate: <u>1.17e+06</u>	hTRIG3 rate: <u>470</u>	hTRIG4 rate: <u>121</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>1719</u>		hTRIG5 rate: <u>137</u>	hTRIG6 rate: <u>58</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6/8</u>		Events <u>140K</u>	Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>10</u> (μA)	

Run Number: <u>5601</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1719</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate: <u>1.06e+06</u>	hTRIG3 rate: <u>465</u>	hTRIG4 rate: <u>112</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>1750</u>		hTRIG5 rate: <u>143</u>	hTRIG6 rate: <u>62</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>7/8</u>		Events <u>200K</u>	Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.83</u> (μA)	

Run Number: <u>5602</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1751</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate: <u>1.15e+06</u>	hTRIG3 rate: <u>465</u>	hTRIG4 rate: <u>115</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>1823</u>		hTRIG5 rate: <u>154</u>	hTRIG6 rate: <u>60.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8/8</u>		Events <u>200K</u>	Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>10</u> (μA)	



# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/05  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2 x 2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- -1.719 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.70  
Nearest 0.005

θ = SHMS -16.30°  
Nearest 0.005

Collimator: HMS: Large Sieve  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5603</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1825</u> Stop time (from RC): <u>1847</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>12</u> μA	Comments:			Events <u>100K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Run Number: <u>5604</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1848</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3.78e+05</u>	hTRIG3 rate <u>263</u>	hTRIG4 rate <u>74</u>
I <sub>beam</sub> : <u>9</u> μA	Comments:			Events <u>70K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Run Number: <u>5605</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1910</u> Stop time (from RC): <u>1911</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>18</u> μA	Comments:			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Run Number: <u>5606</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1912</u> Stop time (from RC): <u>1927</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.11e+06</u>	hTRIG3 rate <u>466</u>	hTRIG4 rate <u>116</u>
I <sub>beam</sub> : <u>18</u> μA	Comments:			Events <u>100K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
oin   
coin\_sparse\_low

# $p(e, e'\gamma) p$ Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/05  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

$E_{beam}$ : 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

$p$ : +/- \_\_\_\_\_  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

$\theta$ (TV): 30.70  
Nearest 0.005

$\theta$  = SHMS  
-16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet  $I = \underline{462}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp

Run Number: <u>5607</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1939</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.68e+05</u>	hTRIG3 rate <u>976</u>	hTRIG4 rate <u>155</u>
$I_{beam}$ : <u>18</u> $\mu$ A			Stop time (from RC): <u>1952</u>		hTRIG5 rate <u>222</u>	hTRIG6 rate <u>65</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: _____	Events <u>110K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>17</u>
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Run Number: <u>5608</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1953</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.4e+06</u>	hTRIG3 rate <u>950</u>	hTRIG4 rate <u>150</u>
$I_{beam}$ : <u>18</u> $\mu$ A			Stop time (from RC): <u>2023</u>		hTRIG5 rate <u>210</u>	hTRIG6 rate <u>63</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>1/2</u>	Events <u>250K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>17</u>
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Run Number: <u>5609</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2024</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.35e+06</u>	hTRIG3 rate <u>947</u>	hTRIG4 rate <u>158</u>
$I_{beam}$ : <u>18</u> $\mu$ A			Stop time (from RC): _____		hTRIG5 rate <u>212</u>	hTRIG6 rate <u>62</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2/2</u>	Events <u>255K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>17</u>
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Run Number: <u>5610</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2108</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6e+06</u>	hTRIG3 rate <u>1150</u>	hTRIG4 rate <u>200</u>
$I_{beam}$ : <u>10</u> $\mu$ A			Stop time (from RC): _____		hTRIG5 rate <u>422</u>	hTRIG6 rate <u>94</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> oin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2: 1/5</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>10</u>
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/05  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60 -1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm	<u>0.30</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.75</u> mm	<u>0.30</u> mm	
Nomin:	Nomin:	

**HMS**  
p: +/- -1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS -16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5611</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2138</u> Stop time (from RC): <u>2208</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.62e+06</u> hTRIG5 rate: <u>433</u>	hTRIG3 rate: <u>1127</u> hTRIG6 rate: <u>84</u>	hTRIG4 rate: <u>206</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>LD2 ; 2/15</u>		Events <u>330K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>0</u> (μA)		

Run Number: <u>5612</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2204</u> Stop time (from RC): <u>2238</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.64e+06</u> hTRIG5 rate: <u>408</u>	hTRIG3 rate: <u>1148</u> hTRIG6 rate: <u>92</u>	hTRIG4 rate: <u>197</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>LD2 ; 3/15</u>		Events <u>320K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>10</u> (μA)		

Run Number: <u>5613</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2234</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.65e+06</u> hTRIG5 rate: <u>430</u>	hTRIG3 rate: <u>1132</u> hTRIG6 rate: <u>91</u>	hTRIG4 rate: <u>206</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>LD2 ; 4/15</u> <u>Beam down ~ 8min of data</u>		Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.25</u> (μA)		

Run Number: <u>5614</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>2307</u> Stop time (from RC): <u>2338</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6e+06</u> hTRIG5 rate: <u>420</u>	hTRIG3 rate: <u>1150</u> hTRIG6 rate: <u>94</u>	hTRIG4 rate: <u>200</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>LD2 ; 4/15</u>		Events <u>340K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.50</u> (μA)		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 10 / 05  
yy mm dd

Initials: AL

Use a separate sheet for each configuration.

Kinematics: KinC\_x60-1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- -1.719  $\theta$ (TV): 34.81  
From GUI Nearest 0.005

$\theta$ (TV): 30.70  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5615</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2339</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.65e+06</u> hTRIG5 rate: <u>426</u>	hTRIG3 rate: <u>1160</u> hTRIG6 rate: <u>94.</u>	hTRIG4 rate: <u>180</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: LD2; 5/15  
CODA Ending with PDS5 issue  
Events 3066 Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) 9.70 ( $\mu$ A)

Run Number: <u>5616</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:14</u> Stop time (from RC): <u>00:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.67x10<sup>6</sup></u> hTRIG5 rate: <u>417.9</u>	hTRIG3 rate: <u>1124</u> hTRIG6 rate: <u>93.6</u>	hTRIG4 rate: <u>203</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 6/15 of 10 $\mu$ A. LD2  
Events 3566 Charge 17.5C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
Max NPS anode current (single crystal) 9.34 ( $\mu$ A)

Run Number: <u>5617</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:47</u> Stop time (from RC): <u>01:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.67x10<sup>6</sup></u> hTRIG5 rate: <u>413.1</u>	hTRIG3 rate: <u>1157.4</u> hTRIG6 rate: <u>90.5</u>	hTRIG4 rate: <u>219.7</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 7/15 of 10 $\mu$ A. LD2  
Events 3506 Charge 17.3C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
Max NPS anode current (single crystal) 9.30 ( $\mu$ A)

Run Number: <u>5618</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:18</u> Stop time (from RC): <u>01:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.61x10<sup>6</sup></u> hTRIG5 rate: <u>415.0</u>	hTRIG3 rate: <u>1141.5</u> hTRIG6 rate: <u>98.2</u>	hTRIG4 rate: <u>199.8</u> <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 8/15 of 10 $\mu$ A. LD2  
stopped due to no beam  
Events \_\_\_\_\_ Charge 2.75C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 9.30 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 08 / 06  
 yy mm dd

Initials: PIL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_00-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

**HMS, field, current OK?**  
 yes  no

Beam position and angle on target:

**HMS**  
 p: +0.1719 From GUI θ(TV): 39.81 Nearest 0.005

**SHMS**  
 θ(TV): 30.7 Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.29</u> mm
Nomin:		
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5619</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.68x10<sup>6</sup></u>	hTRIG3 rate <u>1137.1</u>	hTRIG4 rate <u>207.6</u>
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC):			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate <u>441.1</u>	hTRIG6 rate <u>96.9</u>	

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: 8/15 of 10μA. LD2  
50k run showed no NPS info. Killed  
 Events \_\_\_\_\_ Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) 9.79 (μA)

Run Number: <u>5620</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:29</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.67x10<sup>6</sup></u>	hTRIG3 rate <u>1137.0</u>	hTRIG4 rate <u>199.3</u>
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC): <u>02:35</u>			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate <u>429.8</u>	hTRIG6 rate <u>99.6</u>	

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: 8/15 of 10μA. LD2  
Junk. No NPS data.  
 Events \_\_\_\_\_ Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) 9.99 (μA)

Run Number: <u>5621</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:44</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC):			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: Junk, lost connection to  
nps-vm2  
 Events \_\_\_\_\_ Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

Run Number: <u>5622</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:03</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10 μA</u>	Stop time (from RC):			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	

coin\_sparse   
 oin   
 coin\_sparse\_low   
 Comments: Junk. nps-vm2 crate  
power off again  
 Events \_\_\_\_\_ Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24.04.06  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-2**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>185</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
p: +0.719 From GUI θ(TV): 39.81 Nearest 0.005

**SHMS**  
θ(TV): 30.7 Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5623</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:15</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.60x10<sup>6</sup></u>	hTRIG3 rate <u>1139.2</u>	hTRIG4 rate <u>205.9</u>
I <sub>beam</sub> : <u>10 μA</u>			Stop time (from RC):		hTRIG5 rate <u>425.8</u>	hTRIG6 rate <u>92.9</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: Jump. beam 50k plot issue persists.  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) 9.69 (μA)

*Run to 24.5625. just runs for debugging*

Run Number: <u>5626</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.73x10<sup>6</sup></u>	hTRIG3 rate <u>1161.8</u>	hTRIG4 rate <u>208.8</u>
I <sub>beam</sub> : <u>10 μA</u>			Stop time (from RC): <u>05:31</u>		hTRIG5 rate <u>482.5</u>	hTRIG6 rate <u>99.9</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 8/15 of 10μA, LD2 No valid 50k plot.  
Events 351K Charge 170 μC  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.98%  
Max NPS anode current (single crystal) 9.93 (μA)

Run Number: <u>5627</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.63x10<sup>6</sup></u>	hTRIG3 rate <u>1148.7</u>	hTRIG4 rate <u>205.8</u>
I <sub>beam</sub> : <u>10 μA</u>			Stop time (from RC): <u>06:02</u>		hTRIG5 rate <u>443.7</u>	hTRIG6 rate <u>95.6</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 9/15 of 10μA, LD2 No valid 50k plot  
Events 333K Charge 64 μC  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.99%  
Max NPS anode current (single crystal) 9.57 (μA)

Run Number: <u>5628</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10 μA</u>			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 10/15 of 10μA, LD2 Junk, CODA froze with prestart.  
Events 333K Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/09/06 Initials: RLZ  
 yy mm dd

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
 p: +0.719 θ(TV): 39.8  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.7  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5629</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06=16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.69x10<sup>6</sup></u>	hTRIG3 rate <u>1161.7</u>	hTRIG4 rate <u>205.3</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>10/15 of 10μA, LD2</u> <u>No valid 50k plot</u>			Events <u>351K</u> Charge <u>6.88nC</u>	Active trigger fraction (NPS Scaler Gui) <u>99.99%</u>	LiveTime <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.81 (μA)</u>
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5630</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06=50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.64x10<sup>6</sup></u>	hTRIG3 rate <u>1135.2</u>	hTRIG4 rate <u>191.9</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>11/15 of 10μA, LD2</u> <u>No valid 50k plot</u>			Events <u>353K</u> Charge <u>7.24nC</u>	Active trigger fraction (NPS Scaler Gui) <u>99.99%</u>	LiveTime <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.78 (μA)</u>
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5631</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07=23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.68x10<sup>6</sup></u>	hTRIG3 rate <u>1142.9</u>	hTRIG4 rate <u>211.9</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>12/15 of 10μA, LD2</u> <u>No valid 50k plot</u>			Events <u>356K</u> Charge <u>7.12nC</u>	Active trigger fraction (NPS Scaler Gui) <u>99.99%</u>	LiveTime <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.87 (μA)</u>
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5632</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07=56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.68x10<sup>6</sup></u>	hTRIG3 rate <u>1184.4</u>	hTRIG4 rate <u>205.3</u>
I <sub>beam</sub> : <u>10 μA</u>	Comments: <u>13/15 of 10μA, LD2</u>			Events <u>358K</u> Charge <u>7.1nC</u>	Active trigger fraction (NPS Scaler Gui) <u>99.99%</u>	LiveTime <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.95 (μA)</u>
coin_sparse <input checked="" type="checkbox"/> oin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/7/6  
yy mm dd

Initials: Ch

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60.1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1719 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.7  
Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve    
NPS Sweep Magnet I = 465 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5633</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.62e6</u>	hTRIG3 rate <u>1121</u>	hTRIG4 rate <u>201</u>
I <sub>beam</sub> : <u>10</u> μA	Stop time (from RC): <u>09:15</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>415</u>	hTRIG6 rate <u>96</u>	

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 14 + 1/15 with LD2

Events 351k Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.79 (μA)  
Charge 7 MC

Run Number: <u>5634</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>09:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.61 M</u>	hTRIG3 rate <u>1133</u>	hTRIG4 rate <u>187</u>
I <sub>beam</sub> : <u>10</u> μA	Stop time (from RC): <u>09:48</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>421</u>	hTRIG6 rate <u>97</u>	

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 15 th/15 with LD2

Events 350k Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.25 (μA)  
Charge 7 MC

Run Number: <u>5635</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>09:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.04 M</u>	hTRIG3 rate <u>806.1</u>	hTRIG4 rate <u>156.7</u>
I <sub>beam</sub> : <u>7</u> μA	Stop time (from RC): <u>10:13</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>212.4</u>	hTRIG6 rate <u>67.7</u>	

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 20 - min at 7 μA

Events 142k Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 6.55 (μA)  
Charge 1.01 MC

Run Number: <u>5636</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>5</u> μA	Stop time (from RC):			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_ Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) \_\_\_\_\_ (μA)  
Charge \_\_\_\_\_ C



# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 4 / 6  
yy mm dd

Initials: cl

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 601**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u> mm	<u>0.25</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.74</u> mm	<u>0.30</u> mm	
Nomin:	Nomin:	

**HMS**  
p: +1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.7  
Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 46.4 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5638</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:56</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>7.30e5</u>	hTRIG3 rate <u>602.6</u>	hTRIG4 rate <u>118.4</u>
I <sub>beam</sub> : <u>5</u> μA			Stop time (from RC): <u>11:28</u>		hTRIG5 rate <u>132.1</u>	hTRIG6 rate <u>54.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>30-min at 5 μA</u>			Events <u>218K</u> Charge <u>4.4nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.16</u> (μA)	

Run Number: <u>5639</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:34</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.68e6</u>	hTRIG3 rate <u>1136</u>	hTRIG4 rate <u>208</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>11:51</u>		hTRIG5 rate <u>446</u>	hTRIG6 rate <u>99</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>15-min at 10 μA</u>			Events <u>62K</u> Charge <u>9.3nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.69</u> (μA)	

Run Number: <u>5640</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:02</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.13e6</u>	hTRIG3 rate <u>473</u>	hTRIG4 rate <u>116</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>12:33</u>		hTRIG5 rate <u>136</u>	hTRIG6 rate <u>63</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>1st run of LH2</u>			Events <u>20K</u> Charge <u>28.7nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.14</u> (μA)	

Run Number: <u>5641</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:35</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.08M</u>	hTRIG3 rate <u>463</u>	hTRIG4 rate <u>118</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>13:06</u>		hTRIG5 rate <u>139</u>	hTRIG6 rate <u>58</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2nd run of LH2</u>			Events <u>200K</u> Charge <u>29nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.23</u> (μA)	

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/16  
yy mm dd

Initials: CH

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.364 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.25</u>	mm	<u>0.299</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +9 1.319 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.7  
Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 465 Amp NPS Upstream Corr. I = 6 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5642</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:08</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.13 M</u>	hTRIG3 rate <u>466</u>	hTRIG4 rate <u>113</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>13:40</u>		hTRIG5 rate <u>144</u>	hTRIG6 rate <u>59</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 3rd run of LH2

Events 210K Charge 32mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 10.4 (μA)

Run Number: <u>5643</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:41</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.09 M</u>	hTRIG3 rate <u>470</u>	hTRIG4 rate <u>117.5</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>14:13</u>		hTRIG5 rate <u>153.6</u>	hTRIG6 rate <u>62.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 4th run of LH2

Events 210K Charge 30mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 10.22 (μA)

Run Number: <u>5644</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:15</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.09 M</u>	hTRIG3 rate <u>455</u>	hTRIG4 rate <u>116</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>14:46</u>		hTRIG5 rate <u>142</u>	hTRIG6 rate <u>59</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 5th run of LH2

Events 210K Charge 31mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.76 (μA)

Run Number: <u>5646</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:50</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.12 M</u>	hTRIG3 rate <u>456</u>	hTRIG4 rate <u>114</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>15:22</u>		hTRIG5 rate <u>133</u>	hTRIG6 rate <u>59</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  in  coin\_sparse\_low

Comments: 6th run of LH2

Events 206K Charge 30mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 10.15 (μA)

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/11/16  
yy mm dd

Initials: CH

Use a separate sheet for each configuration.

Kinematics: KinC\_x <sup>60-1</sup>

E<sub>beam</sub>: 6.3<sup>66</sup> GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.44</u> mm	<u>0.31</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.95</u> mm	<u>0.30</u> mm	
Nomin:	Nomin:	

HMS  
p: +0.1719 From GUI θ(TV): 39.81 Nearest 0.005

SHMS  
θ(TV): 30.7 Nearest 0.005

NPS  
θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5649</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:23</u> Stop time (from RC): <u>15:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.08M</u> hTRIG5 rate: <u>141</u>	hTRIG3 rate: <u>459</u> hTRIG6 rate: <u>60</u>	hTRIG4 rate: <u>112</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 7th of L42  
Events 210k Charge 31mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.72 (μA)

Run Number: <u>5648</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:56</u> Stop time (from RC): <u>16:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.09M</u> hTRIG5 rate: <u>147</u>	hTRIG3 rate: <u>415</u> hTRIG6 rate: <u>58</u>	hTRIG4 rate: <u>117</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 8th of L42  
Events 200k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.66 (μA)

Run Number: <u>5649</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:24</u> Stop time (from RC): <u>16:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>55e+05</u> hTRIG5 rate: <u>81</u>	hTRIG3 rate: <u>335</u> hTRIG6 rate: <u>47</u>	hTRIG4 rate: <u>90</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 181k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 7 (μA)

Run Number: <u>5650</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:54</u> Stop time (from RC): <u>17:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>3.4e+05</u> hTRIG5 rate: <u>55</u>	hTRIG3 rate: <u>260</u> hTRIG6 rate: <u>44</u>	hTRIG4 rate: <u>80</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  in  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 132k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 5 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/06  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-1

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +/- -1.719 θ(TV): 34.81  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.70  
Nearest 0.005

**NPS**  
 θ = SHMS -16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5651</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1725</u> Stop time (from RC): <u>1738</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.19e+06</u> hTRIG5 rate: <u>151</u>	hTRIG3 rate: <u>462</u> hTRIG6 rate: <u>62</u>	hTRIG4 rate: <u>114</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>Ended it at 10 min by mistake. Will take another 10 min.</u>			Events: _____ Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.70</u> (μA)	

Run Number: <u>5652</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1738</u> Stop time (from RC): <u>1750</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.2e+06</u> hTRIG5 rate: <u>150</u>	hTRIG3 rate: <u>460</u> hTRIG6 rate: <u>60</u>	hTRIG4 rate: <u>110</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: _____			Events: <u>83K</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.5</u> (μA)	

Run Number: <u>5653</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1802</u> Stop time (from RC): <u>1813</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>9.66e+05</u> hTRIG5 rate: <u>220</u>	hTRIG3 rate: <u>452</u> hTRIG6 rate: <u>68</u>	hTRIG4 rate: <u>150</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>10 min</u>			Events: <u>73K</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>17</u> (μA)	

Run Number: <u>5654</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1814</u> Stop time (from RC): <u>1848</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>9.65e+05</u> hTRIG5 rate: <u>216</u>	hTRIG3 rate: <u>480</u> hTRIG6 rate: <u>64</u>	hTRIG4 rate: <u>150</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>30 min : 1/2</u>			Events: <u>300K</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>17</u> (μA)	

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 06  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-1

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

HMS

SHMS

NPS

p: +/- -1.719 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.70  
Nearest 0.005

θ = SHMS -16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5655</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1850</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 30 min; 2/2  
Beam down

Events \_\_\_\_\_ Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number: <u>5656</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1908</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.6e+05</u>	hTRIG3 rate <u>470</u>	hTRIG4 rate <u>150</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>1940</u>		hTRIG5 rate <u>200</u>	hTRIG6 rate <u>60</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 30 min - 2/2

Events 290K Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA) 17

Run Number: <u>5657</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1953</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6e+06</u>	hTRIG3 rate <u>1130</u>	hTRIG4 rate <u>180</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>2026</u>		hTRIG5 rate <u>410</u>	hTRIG6 rate <u>90</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: LD2 : 1/15

Events 370K Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA) 10

Run Number: <u>5658</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2027</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.62e+06</u>	hTRIG3 rate <u>1124</u>	hTRIG4 rate <u>140</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>2100</u>		hTRIG5 rate <u>414</u>	hTRIG6 rate <u>90</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  in  coin\_sparse\_low   
Comments: LD2 : 2/15

Events 370K Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA) 10

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24 / 04 / 08  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**HMS**  
p: +/- -11.9 θ(TV): 34.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS -16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5659</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>7</u> PS2: <u>7</u> PS3: <u>7</u> PS4: <u>0</u> PS5: <u>7</u> PS6: <u>7</u>	Start time (from RC): <u>2100</u> Stop time (from RC): <u>2134</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.61e+06</u> hTRIG5 rate: <u>400</u>	hTRIG3 rate: <u>1128</u> hTRIG6 rate: <u>100</u>	hTRIG4 rate: <u>203</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2: 3/15</u>	Events <u>363K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.6</u> (μA)
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Run Number: <u>5660</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2135</u> Stop time (from RC): <u>2209</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6e+06</u> hTRIG5 rate: <u>408</u>	hTRIG3 rate: <u>1141</u> hTRIG6 rate: <u>94</u>	hTRIG4 rate: <u>200</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2: 4/15</u>	Events <u>375K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.5</u> (μA)
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Run Number: <u>5661</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>7</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2210</u> Stop time (from RC): <u>2243</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6e+06</u> hTRIG5 rate: <u>405</u>	hTRIG3 rate: <u>1140</u> hTRIG6 rate: <u>426</u>	hTRIG4 rate: <u>205</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2: 5/15</u>	Events <u>370K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9</u> (μA)
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Run Number: <u>5662</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>7</u> PS2: <u>7</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>7</u>	Start time (from RC): <u>2244</u> Stop time (from RC): <u>2307</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6e+06</u> hTRIG5 rate: <u>415</u>	hTRIG3 rate: <u>1147</u> hTRIG6 rate: <u>94</u>	hTRIG4 rate: <u>202</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2: 6/15</u>	Events <u>320K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.65</u> (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 06  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- -1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS -16.30°  
Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5663</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2318</u> Stop time (from RC): <u>2348</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6e+06</u> hTRIG3 rate: <u>1129</u> hTRIG4 rate: <u>200</u> hTRIG5 rate: <u>428</u> hTRIG6 rate: <u>100</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 = 7/15</u>	Events <u>325K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal) <u>9.23</u> (μA)
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Run Number: <u>5664</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2349</u> Stop time (from RC): <u>00:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6e+06</u> hTRIG3 rate: <u>1144</u> hTRIG4 rate: <u>200</u> hTRIG5 rate: <u>400</u> hTRIG6 rate: <u>91</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 : 8/15</u>	Events <u>352K</u> Charge <u>6.72C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.98%</u>	Max NPS anode current (single crystal) <u>9.45</u> (μA)
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Run Number: <u>5665</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:24</u> Stop time (from RC): <u>00:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.59x10<sup>6</sup></u> hTRIG3 rate: <u>1136.8</u> hTRIG4 rate: <u>198.5</u> hTRIG5 rate: <u>440.2</u> hTRIG6 rate: <u>100.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>9/15 10 μA, LD2</u>	Events <u>353K</u> Charge <u>7.39C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.98%</u>	Max NPS anode current (single crystal) <u>9.08</u> (μA)
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Run Number: <u>5666</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:56</u> Stop time (from RC): <u>01:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.64x10<sup>6</sup></u> hTRIG3 rate: <u>1166.0</u> hTRIG4 rate: <u>212.6</u> hTRIG5 rate: <u>425.5</u> hTRIG6 rate: <u>93.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>10/15 10 μA, LD2</u>	Events <u>311K</u> Charge <u>7.04C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.99%</u>	Max NPS anode current (single crystal) <u>9.65</u> (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 07  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: 0.1719 From GUI θ(TV): 39.81  
Nearest 0.005

**SHMS**  
θ(TV): 70.7  
Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5667  
I<sub>beam</sub>: 10 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 01:29  
Stop time (from RC): 02:02

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.62x10<sup>6</sup>  
hTRIG5 rate: 411.9

hTRIG3 rate: 1131.2  
hTRIG6 rate: 94.9

hTRIG4 rate: 194.2  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 11/15, 10μA, LD2

Events 352K  
Charge 1692C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.99%

Max NPS anode current (single crystal): 8.82 (μA)

Run Number: 5668  
I<sub>beam</sub>: 10 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 02:03  
Stop time (from RC): 02:36

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.60x10<sup>6</sup>  
hTRIG5 rate: 417.9

hTRIG3 rate: 1115.3  
hTRIG6 rate: 94.9

hTRIG4 rate: 197.5  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 12/15, 10μA, LD2

Events 377K  
Charge 1830C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.98%

Max NPS anode current (single crystal): 9.08 (μA)

Run Number: 5669  
I<sub>beam</sub>: 10 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 02:37  
Stop time (from RC): 03:10

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.61x10<sup>6</sup>  
hTRIG5 rate: 450.4

hTRIG3 rate: 1104.6  
hTRIG6 rate: 107.3

hTRIG4 rate: 192.8  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 13/15, 10μA, LD2

Events 345K  
Charge 1633C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.99%

Max NPS anode current (single crystal): 9.52 (μA)

Run Number: 5670  
I<sub>beam</sub>: 10 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 03:10  
Stop time (from RC): 03:43

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.59x10<sup>6</sup>  
hTRIG5 rate: 411.0

hTRIG3 rate: 1164.2  
hTRIG6 rate: 93.4

hTRIG4 rate: 203.8  
 Data ok  
 Junk

coin\_sparse   
in   
coin\_sparse\_low

Comments: 14/15, 10μA, LD2

Events 350K  
Charge 1692C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.99%

Max NPS anode current (single crystal): 9.32 (μA)



# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 29.09.07  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_60-1**

E<sub>beam</sub>: 6.268 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.719 From GUI θ(TV): 39.81 Nearest 0.005

θ(TV): 30.7 Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:**

HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

**Run Number:**

5671

I<sub>beam</sub>: 10 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):  
03:44

Stop time (from RC):  
04:15

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.63 x 10<sup>6</sup>

hTRIG3 rate  
1148.1

hTRIG4 rate  
204.4

hTRIG5 rate  
419.7

hTRIG6 rate  
97.4

- Data ok
- Junk

- coin\_sparse
- coin
- coin\_sparse\_low

Comments: 15/15. 10μA . LD2

Events 346k  
Charge 7.05 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.96%

Max NPS anode current (single crystal)  
9.75 (μA)

**Run Number:**

5672

I<sub>beam</sub>: 7 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):  
04:17

Stop time (from RC):  
04:39

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.0 x 10<sup>6</sup>

hTRIG3 rate  
771.6

hTRIG4 rate  
156.3

hTRIG5 rate  
203.5

hTRIG6 rate  
62.4

- Data ok
- Junk

- coin\_sparse
- coin
- coin\_sparse\_low

Comments: 7μA . LD2 . 20min

Events 184k  
Charge 8.26 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.99%

Max NPS anode current (single crystal)  
6.84 (μA)

**Run Number:**

5673

I<sub>beam</sub>: 5 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):  
04:41

Stop time (from RC):  
05:14

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
7.31 x 10<sup>5</sup>

hTRIG3 rate  
605.3

hTRIG4 rate  
127.4

hTRIG5 rate  
134.1

hTRIG6 rate  
55.0

- Data ok
- Junk

- coin\_sparse
- coin
- coin\_sparse\_low

Comments: 5μA . LD2 . 30min

Events 201k  
Charge 8.8 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
5.12 (μA)

**Run Number:**

5674

I<sub>beam</sub>: 10 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 2  
PS5: -1  
PS6: -1

Start time (from RC):  
05:17

Stop time (from RC):  
05:34

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
1.61 x 10<sup>6</sup>

hTRIG3 rate  
1143.5

hTRIG4 rate  
208

hTRIG5 rate  
435.5

hTRIG6 rate  
88.8

- Data ok
- Junk

- coin\_sparse
- in
- coin\_sparse\_low

Comments: 10μA . LD2 . 15min

Events 61k  
Charge 8.73 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
9.31 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/09/07  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**

p: +0.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**

θ(TV): 30.7  
Nearest 0.005

**NPS**

θ = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.76</u> mm		<u>0.32</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5675</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.08x10<sup>6</sup></u>	hTRIG3 rate <u>465.1</u>	hTRIG4 rate <u>125.0</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>1/8 LH2</u>		Stop time (from RC): <u>06:17</u>	Events <u>210k</u> Charge <u>2.62C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.95</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5676</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.12x10<sup>6</sup></u>	hTRIG3 rate <u>475.0</u>	hTRIG4 rate <u>112.9</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>2/8 LH2. stopped due to no beam</u>		Stop time (from RC): <u>06:49</u>	Events <u>30k</u> Charge <u>1.83C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.90</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5677</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.10x10<sup>6</sup></u>	hTRIG3 rate <u>461.4</u>	hTRIG4 rate <u>117.4</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>Makeup run for the 2/8 LH2</u>		Stop time (from RC): <u>07:22</u>	Events <u>118k</u> Charge <u>1.73C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.50</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5678</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.13x10<sup>6</sup></u>	hTRIG3 rate <u>481.0</u>	hTRIG4 rate <u>119.4</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>3/8 LH2.</u>		Stop time (from RC): <u>07:54</u>	Events <u>193k</u> Charge <u>2.62C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.10</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/09/07  
yy mm dd

Initials: RLC

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 601**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6268 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1719 From GUI θ(TV): 39.81 Nearest 0.005

θ(TV): 30.7 Nearest 0.005

θ = SHMS 14.4 Nearest 0.005  
-16.30°

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5679</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.11x10<sup>6</sup></u>	hTRIG3 rate <u>496.2</u>	hTRIG4 rate <u>124.1</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>4/8 LH2</u>		Stop time (from RC): <u>08:26</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>141.3</u>	hTRIG6 rate <u>58.2</u>	

coin\_sparse  coin  coin\_sparse\_low  Events 210K Charge 31nC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 10.16 (μA)

Run Number: <u>5680</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.06 M</u>	hTRIG3 rate <u>449</u>	hTRIG4 rate <u>126</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>5/8 LH2</u>		Stop time (from RC): <u>08:59</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>132</u>	hTRIG6 rate <u>59</u>	

coin\_sparse  coin  coin\_sparse\_low  Events 210K Charge 31nC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.53 (μA)

Run Number: <u>5681</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>09:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.04 M</u>	hTRIG3 rate <u>477</u>	hTRIG4 rate <u>119</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>6/8 LH2</u>		Stop time (from RC): <u>09:33</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>139</u>	hTRIG6 rate <u>58</u>	

coin\_sparse  coin  coin\_sparse\_low  Events 212K Charge 31nC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.98 (μA)

Run Number: <u>5682</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>09:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.09 M</u>	hTRIG3 rate <u>494.6</u>	hTRIG4 rate <u>118</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>7/8 LH2</u>		Stop time (from RC): <u>10:07</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>138</u>	hTRIG6 rate <u>56</u>	

coin\_sparse  in  coin\_sparse\_low  Events 210K Charge 31nC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.56 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/07  
 yy mm dd

Initials: CH

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>287</u> mm		<u>0.31</u> mm
Nomin:		
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		

**HMS**

**SHMS**

**NPS**

p: +0.719 From GUI θ(TV): 39.81 Nearest 0.005

θ(TV): 30.7 Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5663</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>10:16</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.04 M</u>	hTRIG3 rate <u>448</u>	hTRIG4 rate <u>115.6</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>8/8 LH2</u>			Events <u>210K</u> Charge <u>31nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.47</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5664</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:49</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>5.48 M</u>	hTRIG3 rate <u>320</u>	hTRIG4 rate <u>90</u>
I <sub>beam</sub> : <u>12</u> μA	Comments: <u>20-min run at 12 μA</u>			Events <u>111K</u> Charge <u>14nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>670</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5665</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:12</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>3.89 e5</u>	hTRIG3 rate <u>239</u>	hTRIG4 rate <u>84</u>
I <sub>beam</sub> : <u>9</u> μA	Comments: <u>30-min run at 9 μA</u>			Events <u>130K</u> Charge <u>13nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>452</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5666</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:48</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate <u>1.05 M</u>	hTRIG3 rate <u>478</u>	hTRIG4 rate <u>122</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>Data rate ≈ 10MB/s</u>			Events <u>33K</u> Charge <u>14nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.91</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/07  
 yy mm dd

Initials: CH

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60.1

E<sub>beam</sub>: 6.366 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm	<u>0.30</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm	<u>0.30</u> mm	
Nomin:		Nomin:

**HMS**  
 p: +0.1719 From GUI  
 θ(TV): 39.81 Nearest 0.005

**SHMS**  
 θ(TV): 30.7 Nearest 0.005

**NPS**  
 θ = SHMS 17.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5687</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:16</u>	Stop time (from RC): <u>12:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.29 e5</u>	hTRIG3 rate <u>956</u>	hTRIG4 rate <u>152</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>10 min Dummy</u>			Events <u>90k</u> Charge <u>93mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>17.7</u> (μA)			

Run Number: <u>5688</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:28</u>	Stop time (from RC): <u>13:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.48 e5</u>	hTRIG3 rate <u>955</u>	hTRIG4 rate <u>158</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>1/2 30-min Dummy</u>			Events <u>27k</u> Charge <u>27mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>17.8</u> (μA)			

Run Number: <u>8689</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:02</u>	Stop time (from RC): <u>13:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.56 e5</u>	hTRIG3 rate <u>974</u>	hTRIG4 rate <u>170</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>2/2 of 30 min Dummy</u>			Events <u>272k</u> Charge <u>30mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>17.32</u> (μA)			

Run Number: <u>5690</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:45</u>	Stop time (from RC): <u>14:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.58M</u>	hTRIG3 rate <u>1146</u>	hTRIG4 rate <u>200</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>1/15 of 60</u>			Events <u>332k</u> Charge <u>16mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.99</u> (μA)			

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 07 / 07  
 yy mm dd

Initials: cy

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

**HMS**  
 p: +51.7/9 θ(TV): 39.8  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.7  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.84</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 4.8 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5691</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:18</u>	Stop time (from RC): <u>14:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.54M</u>	hTRIG3 rate <u>1124</u>	hTRIG4 rate <u>191</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>2/15 of LD2</u>			Events <u>34K</u> Charge <u>17C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.29</u> (μA)			

Run Number: <u>5692</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:50</u>	Stop time (from RC): <u>15:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.54M</u>	hTRIG3 rate <u>1114</u>	hTRIG4 rate <u>205</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>3/15 LD2 End run failed</u>			Events <u>?</u> Charge <u>?C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.6</u> (μA)			

Run Number: <u>5693</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:26</u>	Stop time (from RC): <u>15:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.56M</u>	hTRIG3 rate <u>1110</u>	hTRIG4 rate <u>209</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>4/15 LD2</u>			Events <u>320K</u> Charge <u>16C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.0</u> (μA)			

Run Number: <u>5694</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:58</u>	Stop time (from RC): <u>16:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.53M</u>	hTRIG3 rate <u>1155</u>	hTRIG4 rate <u>204</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>5/15 LD2</u>			Events <u>340K</u> Charge <u>16.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.4</u> (μA)			

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/4/7  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.25</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.25</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS  
p: +/- 1.719 θ(TV): 39.81  
From GUI Nearest 0.005

SHMS  
θ(TV): 30.7  
Nearest 0.005

NPS  
θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5695</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:32</u> Stop time (from RC): <u>17:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.57M</u> hTRIG5 rate <u>383</u>	hTRIG3 rate <u>1120</u> hTRIG6 rate <u>93.6</u>	hTRIG4 rate <u>196.5</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6/15 LD2</u>	Events <u>338K</u> Charge <u>16.28</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.3</u> (μA)
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Run Number: <u>5696</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:04</u> Stop time (from RC): <u>17:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.60M</u> hTRIG5 rate <u>414</u>	hTRIG3 rate <u>1092</u> hTRIG6 rate <u>94</u>	hTRIG4 rate <u>197</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>7/15 LD2</u>	Events <u>329K</u> Charge <u>15.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.9</u> (μA)
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Run Number: <u>5697</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:36</u> Stop time (from RC): <u>18:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.58M</u> hTRIG5 rate <u>403.7</u>	hTRIG3 rate <u>1133</u> hTRIG6 rate <u>94.1</u>	hTRIG4 rate <u>196.8</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8/15 LD2</u>	Events <u>355K</u> Charge <u>17.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.4</u> (μA)
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Run Number: <u>5698</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:07</u> Stop time (from RC): <u>18:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.58M</u> hTRIG5 rate <u>428.5</u>	hTRIG3 rate <u>1131</u> hTRIG6 rate <u>94.4</u>	hTRIG4 rate <u>191.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>9/15 LD2</u>	Events <u>312K</u> Charge <u>14.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.7</u> (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date:    /   /     
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
	<u>1.85</u> mm	<u>0.29</u> mm
Nomin:	Nomin:	
3H07C	X	Y
	<u>0.25</u> mm	<u>0.29</u> mm
Nomin:	Nomin:	

**HMS**  
p: +/- 1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.7  
Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve    
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5699</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:38</u> Stop time (from RC): <u>19:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.54M</u> hTRIG5 rate: <u>407.5</u>	hTRIG3 rate: <u>1124</u> hTRIG6 rate: <u>89.4</u>	hTRIG4 rate: <u>193.3</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>10/15 LD2</u>			Events <u>318k</u> Charge <u>15.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>9.1</u> (μA)	

Run Number: <u>5700</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:09</u> Stop time (from RC): <u>19:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.53M</u> hTRIG5 rate: <u>420</u>	hTRIG3 rate: <u>1133</u> hTRIG6 rate: <u>91.1</u>	hTRIG4 rate: <u>203.5</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>11/15 LD2</u>			Events <u>326k</u> Charge <u>16.0</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>8.6</u> (μA)	

Run Number: <u>5701</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:40</u> Stop time (from RC): <u>20:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.56M</u> hTRIG5 rate: <u>432</u>	hTRIG3 rate: <u>1160</u> hTRIG6 rate: <u>97.9</u>	hTRIG4 rate: <u>200.5</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>12/15 LD2</u>			Events <u>316k</u> Charge <u>15.0</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>8.9</u> (μA)	

Run Number: <u>5702</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:52</u> Stop time (from RC): <u>20:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.54M</u> hTRIG5 rate: <u>417</u>	hTRIG3 rate: <u>1154</u> hTRIG6 rate: <u>103.1</u>	hTRIG4 rate: <u>196.5</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>13/15 LD2</u> <u>Beam off after 10 min run start</u> <u>Ended run, no beam</u>			Events <u>132k</u> Charge <u>4.40</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>9.6</u> (μA)	



# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/7  
 yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.369 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +/- 1.713 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.7  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.86</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 460 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5703</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:40</u> Stop time (from RC): <u>22:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.64M</u> hTRIG5 rate: <u>413</u>	hTRIG3 rate: <u>1182</u> hTRIG6 rate: <u>34.4</u>	hTRIG4 rate: <u>211</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>14/15 LD2</u>			Events <u>352k</u> Charge <u>17c</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>9.6</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5704</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:12</u> Stop time (from RC): <u>24:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.52M</u> hTRIG5 rate: <u>418</u>	hTRIG3 rate: <u>1140</u> hTRIG6 rate: <u>35.1</u>	hTRIG4 rate: <u>197.8</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>15/15 LD2</u>			Events <u>331k</u> Charge <u>15.8c</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>9.35</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5705</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:44</u> Stop time (from RC): <u>22:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.63M</u> hTRIG5 rate: <u>444</u>	hTRIG3 rate: <u>1192</u> hTRIG6 rate: <u>35.9</u>	hTRIG4 rate: <u>202</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>16/15 LD2</u> <u>Took one more run since run 5702 was very short</u>			Events <u>351k</u> Charge <u>17.2c</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>9.3</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5706</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:17</u> Stop time (from RC): <u>22:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.0M</u> hTRIG5 rate: <u>202</u>	hTRIG3 rate: <u>785</u> hTRIG6 rate: <u>58.7</u>	hTRIG4 rate: <u>151</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>7</u> μA	Comments: <u>7 μA, LD2</u>			Events <u>160k</u> Charge <u>7.8c</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>6.8</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/4/7  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

**HMS**  
 p: +/- 1.718 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.70  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.28</u> mm
Nomin:		Nomin:

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 462 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5707</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:40</u> Stop time (from RC): <u>23:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.63M</u> hTRIG5 rate: <u>120.4</u>	hTRIG3 rate: <u>596</u> hTRIG6 rate: <u>56.9</u>	hTRIG4 rate: <u>126.6</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 5 μA, LD2  
 Events 200k Charge 8.0 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 4.6 (μA)

Run Number: <u>5708</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:15</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.6M</u> hTRIG5 rate: <u>420</u>	hTRIG3 rate: <u>1226</u> hTRIG6 rate: <u>92.4</u>	hTRIG4 rate: <u>204</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 10 μA, coin, LD2  
 Events 160k Charge 7.5 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.4 (μA)

Run Number: <u>5709</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:40</u> Stop time (from RC): <u>00:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.08M</u> hTRIG5 rate: <u>134</u>	hTRIG3 rate: <u>488</u> hTRIG6 rate: <u>56.4</u>	hTRIG4 rate: <u>220</u> <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 1/8 LH2 CODA busy state, possible junk  
 Events 190k Charge 27.96 C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.4 (μA)

Run Number: <u>5710</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:19:13</u> Stop time (from RC): <u>00:51:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.03 MHz</u> hTRIG5 rate: <u>130 Hz</u>	hTRIG3 rate: <u>470 Hz</u> hTRIG6 rate: <u>60 Hz</u>	hTRIG4 rate: <u>120 Hz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 1/8  
 Events 210k Charge 20.28 C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.81 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 29 / 04 / 08  
 yy mm dd

Initials: MM

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60.1

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2 mm

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1719 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.70  
Nearest 0.005

θ = SHMS 14.40  
 -16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5711</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:54:18</u>	Stop time (from RC): <u>01:24:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.03 MHz</u>	hTRIG3 rate <u>470 Hz</u>	hTRIG4 rate <u>110 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>2/8</u>			Events <u>200k</u> Charge <u>2831C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.99</u> (μA)			

Run Number: <u>5712</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:25:32</u>	Stop time (from RC): <u>01:56:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>990 kHz</u>	hTRIG3 rate <u>450 Hz</u>	hTRIG4 rate <u>110 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>3/8</u>			Events <u>210k</u> Charge <u>3141C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.73</u> (μA)			

Run Number: <u>5713</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:58:01</u>	Stop time (from RC): <u>02:31:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>970 kHz</u>	hTRIG3 rate <u>460 Hz</u>	hTRIG4 rate <u>110 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>4/8</u>			Events <u>207k</u> Charge <u>2441C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.83</u> (μA)			

Run Number: <u>5714</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:32:10</u>	Stop time (from RC): <u>03:09:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.02 MHz</u>	hTRIG3 rate <u>480 Hz</u>	hTRIG4 rate <u>110 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>5/8</u>			Events <u>220k</u> Charge <u>3024C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.48</u> (μA)			

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/08  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 00-1

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

**HMS**  
p: +1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS 14.40  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 408 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5715</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): <u>03:10:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.05 MHz</u>	hTRIG3 rate <u>490 Hz</u>	hTRIG4 rate <u>110 Hz</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>6/8</u>			Stop time (from RC): <u>03:42:56</u>	hTRIG5 rate <u>140 Hz</u>	hTRIG6 rate <u>60 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>210k</u> Charge <u>20.6 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.95</u> (μA)		

Run Number: <u>5716</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): <u>03:43:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.04 MHz</u>	hTRIG3 rate <u>470 Hz</u>	hTRIG4 rate <u>120 Hz</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>7/8</u>			Stop time (from RC): <u>04:14:29</u>	hTRIG5 rate <u>140 Hz</u>	hTRIG6 rate <u>60 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>190k</u> Charge <u>21.8 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.45</u> (μA)		

Run Number: <u>5717</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): <u>04:15:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.03 MHz</u>	hTRIG3 rate <u>480 Hz</u>	hTRIG4 rate <u>110 Hz</u>
I <sub>beam</sub> : <u>18</u> μA	Comments: <u>8/8</u>			Stop time (from RC): <u>04:48:02</u>	hTRIG5 rate <u>140 Hz</u>	hTRIG6 rate <u>60 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>210k</u> Charge <u>24.3 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.17</u> (μA)		

Run Number: <u>5718</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): <u>04:51:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>540 kHz</u>	hTRIG3 rate <u>320 Hz</u>	hTRIG4 rate <u>100 Hz</u>
I <sub>beam</sub> : <u>12</u> μA	Comments: _____			Stop time (from RC): <u>05:24:21</u>	hTRIG5 rate <u>75 Hz</u>	hTRIG6 rate <u>50 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>140k</u> Charge <u>14.2 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.91</u> (μA)		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 10 1 08  
 yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60.1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
 Size: 2x2 mm

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
 p: +10 1.219  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.40  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5719</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:25:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>390 kHz</u>	hTRIG3 rate <u>260 Hz</u>	hTRIG4 rate <u>80 Hz</u>
I <sub>beam</sub> : <u>9</u> $\mu$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>60 Hz</u>	hTRIG6 rate <u>45 Hz</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>140k</u> Charge <u>1429 C<sup>m</sup></u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>4.80</u>		

Run Number: <u>5720</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate _____	hTRIG3 rate _____	hTRIG4 rate _____
I <sub>beam</sub> : _____ $\mu$ A	Comments: <u>Junk</u>			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate _____	hTRIG6 rate _____	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events _____ Charge _____ C			Active trigger LiveTime fraction (NPS Scaler Gui) _____	Max NPS anode current (single crystal) ( $\mu$ A) _____		

Run Number: <u>5721</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:01:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.0 MHz</u>	hTRIG3 rate <u>480 Hz</u>	hTRIG4 rate <u>120 Hz</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>140 Hz</u>	hTRIG6 rate <u>55 Hz</u>	
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>38k</u> Charge <u>1538 C<sup>m</sup></u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>9.87</u>		

Run Number: <u>5722</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:31:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>950 kHz</u>	hTRIG3 rate <u>1.0 kHz</u>	hTRIG4 rate <u>160 Hz</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>220 Hz</u>	hTRIG6 rate <u>60 Hz</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>90k</u> Charge <u>9196 C<sup>m</sup></u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>17.00</u>		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/08  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics: KinC x 60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2mm

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.1719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.40  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5723</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:42:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>920kHz</u>	hTRIG3 rate <u>960Hz</u>	hTRIG4 rate <u>170Hz</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A			Stop time (from RC): <u>07:09:11</u>		hTRIG5 rate <u>230Hz</u>	hTRIG6 rate <u>65Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>230k</u> Charge <u>2432C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>17.07</u> ( $\mu$ A)		

Run Number: <u>5724</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:24:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>940kHz</u>	hTRIG3 rate <u>950Hz</u>	hTRIG4 rate <u>170Hz</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A			Stop time (from RC): <u>08:00:58</u>		hTRIG5 rate <u>220Hz</u>	hTRIG6 rate <u>60Hz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>320k</u> Charge <u>3503C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>17.66</u> ( $\mu$ A)		

Run Number: <u>5725</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate _____	hTRIG3 rate _____	hTRIG4 rate _____
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC): _____		hTRIG5 rate _____	hTRIG6 rate _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LED Test</u>		Events _____ Charge _____C	Active trigger LiveTime fraction (NPS Scaler Gui) _____	Max NPS anode current (single crystal) _____ ( $\mu$ A)		

Run Number: <u>5726</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:51</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate _____	hTRIG3 rate _____	hTRIG4 rate _____
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): _____		hTRIG5 rate _____	hTRIG6 rate _____	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: <u>Beam was very unstable, NPS sweep m. was OFF</u>		Events _____ Charge _____C	Active trigger LiveTime fraction (NPS Scaler Gui) _____	Max NPS anode current (single crystal) _____ ( $\mu$ A)		

# p(e,e'γ) p Run Sheet

hallweb.llab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 04/04/08  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6368 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.1719 From GUI θ(TV): 39.81 Nearest 0.005

**SHMS**  
θ(TV): 30.70 Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1840</u> mm		<u>0.292</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.25</u> mm		<u>0.303</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5728</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:03</u> Stop time (from RC): <u>23:33.06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.11x10<sup>6</sup></u> hTRIG5 rate: <u>546</u>	hTRIG3 rate: <u>1103</u> hTRIG6 rate: <u>116</u>	hTRIG4 rate: <u>198</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100  
Max NPS anode current (single crystal) 5.19 (μA)

Run Number: <u>5729</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:33.58</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.11x10<sup>6</sup></u> hTRIG5 rate: <u>546</u>	hTRIG3 rate: <u>1103</u> hTRIG6 rate: <u>116</u>	hTRIG4 rate: <u>198</u> <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Beam goes OFF  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100  
Max NPS anode current (single crystal) 5.19 (μA)

Run Number: <u>5730</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: _____ hTRIG5 rate: _____	hTRIG3 rate: _____ hTRIG6 rate: _____	hTRIG4 rate: _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: test run  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

Run Number: <u>5732</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:43</u> Stop time (from RC): <u>21:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.79x10<sup>6</sup></u> hTRIG5 rate: <u>478</u>	hTRIG3 rate: <u>1096</u> hTRIG6 rate: <u>102</u>	hTRIG4 rate: <u>209</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: the actual data was at first 15mins  
Events 197k Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 29, 08, 09  
yy mm dd

Initials: ACF

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1,837</u> mm		<u>0,287</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0,76</u> mm		<u>0,302</u> mm
Nomin:		Nomin:

**HMS**  
p: +0 1,718 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 46.5 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5733</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5734</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>0</u> μA	Comments: <u>LED Run</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5735</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>10:09</u> Stop time (from RC): <u>10:23</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>0</u> μA	Comments: <u>LED Run</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5736</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:07</u> Stop time (from RC): <u>21:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments:		Events <u>309k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>1.91x10<sup>6</sup></u> <u>512</u>	Max NPS anode current (single crystal) (μA) <u>455</u> <u>115</u> <u>10.02</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							



# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 10  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-1

E<sub>beam</sub>: 6369 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1,843</u> mm		<u>0,288</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0,75</u> mm		<u>0,308</u> mm
Nomin:		Nomin:

**HMS**  
p: +0 1,719 θ(TV): 39,81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS 14,4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5737</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:40</u>	Stop time (from RC): <u>22:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1,84x10<sup>6</sup></u>	hTRIG3 rate <u>1109</u>	hTRIG4 rate <u>190</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	I <sub>beam</sub> : <u>10</u> μA	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>292k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10,12</u> (μA)
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Run Number: <u>5738</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:4</u>	Stop time (from RC): <u>22:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1,83x10<sup>6</sup></u>	hTRIG3 rate <u>1131</u>	hTRIG4 rate <u>200</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	I <sub>beam</sub> : <u>10</u> μA	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>300k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10,18</u> (μA)
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Run Number: <u>5739</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:43</u>	Stop time (from RC): <u>23:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1,74x10<sup>6</sup></u>	hTRIG3 rate <u>1110</u>	hTRIG4 rate <u>193</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	I <sub>beam</sub> : <u>10</u> μA	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>320k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.73</u> (μA)
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Run Number: <u>5740</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:15</u>	Stop time (from RC): <u>23:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>475x10<sup>6</sup></u>	hTRIG3 rate <u>1100</u>	hTRIG4 rate <u>217</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	I <sub>beam</sub> : <u>10</u> μA	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: <u>COBA END RUN ERROR, run might OK</u>	Events <u>262k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.84</u> (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/10  
 yy mm dd

Initials: AA

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-1

E<sub>beam</sub>: 6369 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.237</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.4719 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.70  
Nearest 0.005

θ = SHMS 14.4  
 -16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 968 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5741</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:48</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>23:58</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: NO BEAM during the run Events 24k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) (μA)

Run Number: <u>5742</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.33 × 10<sup>6</sup></u>	hTRIG3 rate <u>1148.6</u>	hTRIG4 rate <u>201.1</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>00:31</u>		hTRIG5 rate <u>445.5</u>	hTRIG6 rate <u>98.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: #6/15 only 3min of beam on Events 75k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) (μA)

Run Number: <u>5743</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.33 × 10<sup>6</sup></u>	hTRIG3 rate <u>1149.6</u>	hTRIG4 rate <u>195.3</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>01:28</u>		hTRIG5 rate <u>453.6</u>	hTRIG6 rate <u>99.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: #6/15 Events 372k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) (μA)

Run Number: <u>5744</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.31 × 10<sup>6</sup></u>	hTRIG3 rate <u>1108.0</u>	hTRIG4 rate <u>195.6</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>2:05</u>		hTRIG5 rate <u>442.7</u>	hTRIG6 rate <u>103.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: #7/15 Events 347k Charge 17.0 mC Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 11  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

**HMS, field, current OK?**  
 yes  no

E<sub>beam</sub>: 36.368 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +01.7190 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.70  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.32</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = OFF Amp  
 NPS Upstream Corr. I = OFF Amp

Run Number: <u>5745</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): <u>2:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.27 · 10<sup>6</sup></u>	hTRIG3 rate <u>1101.8</u>	hTRIG4 rate <u>194.6</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>2:41</u>		hTRIG5 rate <u>434.0</u>	hTRIG6 rate <u>90.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: # <u>8/15</u>		Events <u>373K</u> <u>18.19</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.0%</u>	Max NPS anode current (single crystal) <u>9.70</u> (μA)		

Run Number: <u>5746</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): <u>2:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.26 · 10<sup>6</sup></u>	hTRIG3 rate <u>1129.2</u>	hTRIG4 rate <u>201.0</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>3:14</u>		hTRIG5 rate <u>479.2</u>	hTRIG6 rate <u>100.1</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: # <u>9/15</u>		Events <u>355K</u> <u>17.55</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00%</u>	Max NPS anode current (single crystal) <u>10.10</u> (μA)		

Run Number: <u>5747</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): <u>3:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.27 · 10<sup>6</sup></u>	hTRIG3 rate <u>1143.4</u>	hTRIG4 rate <u>194.6</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>3:51</u>		hTRIG5 rate <u>440.5</u>	hTRIG6 rate <u>91.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: # <u>10/15</u>		Events <u>356K</u> <u>17.05</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00%</u>	Max NPS anode current (single crystal) <u>9.54</u> (μA)		

Run Number: <u>5748</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): <u>3:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.29 · 10<sup>6</sup></u>	hTRIG3 rate <u>1126.7</u>	hTRIG4 rate <u>196.5</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>4:30</u>		hTRIG5 rate <u>446.5</u>	hTRIG6 rate <u>98.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: # <u>11/15</u>		Events <u>300K</u> <u>16.73</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00%</u>	Max NPS anode current (single crystal) <u>9.36</u> (μA)		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24,04,11  
yy mm dd

Initials CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1853</u> mm		<u>0.310</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.747</u> mm		<u>0.288</u> mm
Nomin:		Nomin:

**HMS**  
p: +0.719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.40  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5749</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.27 · 10<sup>6</sup></u>	hTRIG3 rate <u>1130</u>	hTRIG4 rate <u>192.0</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>5:10</u>		hTRIG5 rate <u>443.5</u>	hTRIG6 rate <u>104.6</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#12/15</u>		Events <u>410K</u> Charge <u>19.86</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00%</u>	Max NPS anode current (single crystal) <u>9.73</u> ( $\mu$ A)		

Run Number: <u>5750</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.25 · 10<sup>6</sup></u>	hTRIG3 rate <u>1120.1</u>	hTRIG4 rate <u>194.9</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>05:44</u>		hTRIG5 rate <u>413.6</u>	hTRIG6 rate <u>91.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#13/15</u> <u>20.5 min of beamtime</u>		Events <u>268K</u> Charge <u>11.83</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00%</u>	Max NPS anode current (single crystal) <u>9.68</u> ( $\mu$ A)		

Run Number: <u>5751</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:37</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.27 · 10<sup>6</sup></u>	hTRIG3 rate <u>1108.9</u>	hTRIG4 rate <u>199.4</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>7:21</u>		hTRIG5 rate <u>419.2</u>	hTRIG6 rate <u>91.5</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#14/15</u> <u>Extra time here to make up for 5750 (hwt)</u>		Events <u>455K</u> Charge <u>21.94</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.876%</u>	Max NPS anode current (single crystal) <u>9.55</u> ( $\mu$ A)		

Run Number: <u>5752</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>7:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.27 · 10<sup>6</sup></u>	hTRIG3 rate <u>1140.5</u>	hTRIG4 rate <u>206.8</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>7:57</u>		hTRIG5 rate <u>442.2</u>	hTRIG6 rate <u>93.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: <u>#15/15</u>		Events <u>367K</u> Charge <u>17.89</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00%</u>	Max NPS anode current (single crystal) <u>9.48</u> ( $\mu$ A)		

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/11  
yy mm dd

Initials: T-Seng

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60.1

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.368 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: 1.79 θ(TV): 39.8  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.7  
Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>2.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0.6 Amp NPS Upstream Corr. I = 0.6 Amp

Run Number: <u>5753</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:01</u> Stop time (from RC): <u>8:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>8.47 · 10<sup>5</sup></u> hTRIG5 rate: <u>225.9</u>	hTRIG3 rate: <u>814.1</u> hTRIG6 rate: <u>64.2</u>	hTRIG4 rate: <u>155.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 20 min  
Events 143K Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) (μA)

Run Number: <u>5754</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: _____ hTRIG5 rate: _____	hTRIG3 rate: _____ hTRIG6 rate: _____	hTRIG4 rate: _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events \_\_\_\_\_ Charge \_\_\_\_\_ C Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA)

Run Number: <u>5755</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:16</u> Stop time (from RC): <u>22:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.31M</u> hTRIG5 rate: <u>1154</u>	hTRIG3 rate: <u>3651</u> hTRIG6 rate: <u>67</u>	hTRIG4 rate: <u>128</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 1/4 position, 30-min LH2  
Events 30K Charge 30nC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) (μA) 10.61

Run Number: <u>5756</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:51</u> Stop time (from RC): <u>23:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.16 M</u> hTRIG5 rate: <u>1135</u>	hTRIG3 rate: <u>3493</u> hTRIG6 rate: <u>64</u>	hTRIG4 rate: <u>132</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 2/4 position, 30-min LH2  
Events 237K Charge 30nC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) (μA) 10.33

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/11  
yy mm dd

Initials: ch

Use a separate sheet for each configuration.

Kinematics: KinC\_x\_60-1

E<sub>beam</sub>: 6.340 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u> mm	<u>0.32</u> mm	
Nomin:		
3H07C	X	Y
<u>0.75</u> mm	<u>0.30</u> mm	
Nomin:		

**HMS**

**SHMS**

**NPS**

p: 0.319 From GUI θ(TV): 39.81 Nearest 0.005

θ(TV): 30.7 Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 465 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5757</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:26</u> Stop time (from RC): <u>00:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.21 M</u> hTRIG5 rate: <u>1109</u>	hTRIG3 rate: <u>3660</u> hTRIG6 rate: <u>69</u>	hTRIG4 rate: <u>126</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 3/4 position 30-47 LH2  
Events 236K Charge 16mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 10.16 (μA)

Run Number: <u>5758</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:10</u> Stop time (from RC): <u>00:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.22 · 10<sup>6</sup></u> hTRIG5 rate: <u>1124</u>	hTRIG3 rate: <u>3532</u> hTRIG6 rate: <u>61.4</u>	hTRIG4 rate: <u>132</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 4/4 position  
Events 210K Charge 23.5C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 10.32 (μA)

Run Number: <u>5759</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:04</u> Stop time (from RC): <u>1:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: _____ hTRIG5 rate: _____	hTRIG3 rate: _____ hTRIG6 rate: _____	hTRIG4 rate: _____ <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 384K Charge 30mC  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

Run Number: <u>5760</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:53</u> Stop time (from RC): <u>2:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: _____ hTRIG5 rate: _____	hTRIG3 rate: _____ hTRIG6 rate: _____	hTRIG4 rate: _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Beam down  
Events \_\_\_\_\_ Charge \_\_\_\_\_  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24 / 4 / 12  
yy mm dd

Initials: MK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

Position

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.73</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +/- +1.719 θ(TV): 39.810  
From GUI Nearest 0.005

θ(TV): 30.700  
Nearest 0.005

θ = SHMS 14.400  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5761</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.60 · 10<sup>6</sup></u>	hTRIG3 rate <u>5775</u>	hTRIG4 rate <u>183</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>3:17</u>		hTRIG5 rate <u>2422</u>	hTRIG6 rate <u>101</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>4/8 Position runs</u>		Events <u>334K</u> Charge <u>14nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.82</u> (μA)		

Run Number: <u>5762</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>3:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.76 · 10<sup>6</sup></u>	hTRIG3 rate <u>5991</u>	hTRIG4 rate <u>189</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>3:49</u>		hTRIG5 rate <u>2454</u>	hTRIG6 rate <u>95</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2/8 Position runs</u>		Events <u>34K</u> Charge <u>17nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.14</u> (μA)		

Run Number: <u>5763</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>3:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.64 · 10<sup>6</sup></u>	hTRIG3 rate <u>5941</u>	hTRIG4 rate <u>181</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>4:24</u>		hTRIG5 rate <u>2455</u>	hTRIG6 rate <u>101</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>3/8 Position runs</u>		Events <u>364K</u> Charge <u>19nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.88</u> (μA)		

Run Number: <u>5764</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.76 · 10<sup>6</sup></u>	hTRIG3 rate <u>6160</u>	hTRIG4 rate <u>194</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>4:56</u>		hTRIG5 rate <u>2520</u>	hTRIG6 rate <u>97</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: <u>4/8 Position runs</u>		Events <u>322K</u> Charge <u>16nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.15</u> (μA)		

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/12  
yy mm dd

Initials: MK

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-1

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle  
on target:

3H07A	X	Y
<u>1.84</u>	mm	<u>0.34</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.77</u>	mm	<u>0.28</u> mm
Nomin:		Nomin:

HMS  
p: +/- +1.714 θ(TV): 34.81  
From GUI Nearest 0.005

SHMS  
θ(TV): 30.700  
Nearest 0.005

NPS  
θ = SHMS 14.400  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5765</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.70 · 10<sup>6</sup></u>	hTRIG3 rate <u>5928</u>	hTRIG4 rate <u>185</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>5:25</u>		hTRIG5 rate <u>2407</u>	hTRIG6 rate <u>98</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>5/8 position runs</u>	Events <u>250K</u> Charge <u>2mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.54</u> (μA)
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Run Number: <u>5766</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>5:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.72 · 10<sup>6</sup></u>	hTRIG3 rate <u>6023</u>	hTRIG4 rate <u>183</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>6:07</u>		hTRIG5 rate <u>2418</u>	hTRIG6 rate <u>100</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6/8 position runs</u>	Events <u>302K</u> Charge <u>15mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.95</u> (μA)
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Run Number: <u>5767</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.68 · 10<sup>6</sup></u>	hTRIG3 rate <u>5431</u>	hTRIG4 rate <u>181</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>6:51</u>		hTRIG5 rate <u>2395</u>	hTRIG6 rate <u>96</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>7/8 position run</u>	Events <u>314K</u> Charge <u>16mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.31</u> (μA)
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Run Number: <u>5768</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.65 · 10<sup>6</sup></u>	hTRIG3 rate <u>5809</u>	hTRIG4 rate <u>188</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>7:26</u>		hTRIG5 rate <u>2452</u>	hTRIG6 rate <u>99</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: <u>8/8 position run</u>	Events <u>366K</u> Charge <u>18mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.58</u> (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 12  
yy mm dd

Initials: TS

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-1

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS  
 p: +0 θ(TV): 39.8  
From GUI Nearest 0.005

SHMS  
 θ(TV): 30.7  
Nearest 0.005

NPS  
 θ = SHMS 14.9  
 -16.30° Nearest 0.005

Collimator: HMS: Large Sieve  Small Sieve   
 NPS Sweep Magnet I = 4.6 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>5767</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>09:02</u> Stop time (from RC): <u>09:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.1e6</u> hTRIG5 rate: <u>226</u>	hTRIG3 rate: <u>811</u> hTRIG6 rate: <u>67</u>	hTRIG4 rate: <u>150</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>180k</u> Charge <u>8.42m</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal) (μA): <u>7.12</u>
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Run Number: <u>5776</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>09:25</u> Stop time (from RC): <u>10:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>7.48e5</u> hTRIG5 rate: <u>124</u>	hTRIG3 rate: <u>602</u> hTRIG6 rate: <u>53</u>	hTRIG4 rate: <u>117</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>288k</u> Charge <u>9.05m</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal) (μA): <u>4.8</u>
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Run Number: <u>5771</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>4</u> PS4: <u>2</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>10:27</u> Stop time (from RC): <u>10:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.72e6</u> hTRIG5 rate: <u>457</u>	hTRIG3 rate: <u>1133</u> hTRIG6 rate: <u>103</u>	hTRIG4 rate: <u>192</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>30k</u> Charge <u>9.75m</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal) (μA): <u>9.64</u>
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Run Number: <u>5722</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>0</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>10:52</u> Stop time (from RC): <u>11:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.21e6</u> hTRIG5 rate: <u>439</u>	hTRIG3 rate: <u>119</u> hTRIG6 rate: <u>90.7</u>	hTRIG4 rate: <u>192</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>297k</u> Charge <u>8.0m</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal) (μA): <u>9.62</u>
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/ndex.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 10 / 12  
yy mm dd

Initials: T.S.

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 1.57 GeV

Raster:  On  Off  
 Size: 2/2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm	<u>0.3</u> mm	
Nomin:		
3H07C	X	Y
<u>0.75</u> mm	<u>0.3</u> mm	
Nomin:		

**HMS**

**SHMS**

**NPS**

p: + 7/9 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.7  
Nearest 0.005

θ = SHMS 14.4  
 -16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 4.5 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5773</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>0</u>	Start time (from RC): <u>11:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
beam: _____ μA			Stop time (from RC): <u>11:52</u>		hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: _____	Events <u>28k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5774</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>0</u>	Start time (from RC): <u>11:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.97e6</u>	hTRIG3 rate <u>481</u>	hTRIG4 rate <u>120</u>
beam: <u>10</u> μA			Stop time (from RC): <u>12:26</u>		hTRIG5 rate <u>142</u>	hTRIG6 rate <u>60</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>1/8</u>	Events <u>170k</u> <u>24.74k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5775</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>0</u>	Start time (from RC): <u>12:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5e6</u>	hTRIG3 rate <u>570</u>	hTRIG4 rate <u>129</u>
beam: <u>20</u> μA			Stop time (from RC): <u>12:58</u>		hTRIG5 rate <u>201</u>	hTRIG6 rate <u>70</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2/8</u>	Events <u>23k</u> <u>35.51k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5776</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>0</u>	Start time (from RC): <u>12:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.50e6</u>	hTRIG3 rate <u>502</u>	hTRIG4 rate <u>124.9</u>
beam: <u>20</u> μA			Stop time (from RC): <u>13:30</u>		hTRIG5 rate <u>178</u>	hTRIG6 rate <u>68</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: <u>3/8</u>	Events <u>22k</u> <u>53.77k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 2024/04/12  
yy mm dd

Initials: *TSing*

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60.1

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.85 mm	6.3 mm	
Nomin:		Nomin:
3H07C	X	Y
0.75 mm	0.3 mm	
Nomin:		Nomin:

**HMS**  
p:  $\ominus$  1.217  $\theta$ (TV): 39.8  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 32.7  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 4.8 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5777	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 13:31 Stop time (from RC): 14:03	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1396 hTRIG5 rate: 128	hTRIG3 rate: 605 hTRIG6 rate: 63	hTRIG4 rate: 125 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: 4/8 LH2	Events 221k Charge 33.6nC	Active trigger LiveTime fraction (NPS Scaler Gui) 100	Max NPS anode current (single crystal) 10.96 (μA)
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Run Number: 5778	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 14:04 Stop time (from RC): 14:34	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1426 hTRIG5 rate: 120	hTRIG3 rate: 498 hTRIG6 rate: 68	hTRIG4 rate: 118 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: 5/8 LH2	Events 221k Charge 34.6nC	Active trigger LiveTime fraction (NPS Scaler Gui) 100	Max NPS anode current (single crystal) 10.8 (μA)
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Run Number: 5779	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 14:36 Stop time (from RC): 15:07	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1516 hTRIG5 rate: 194	hTRIG3 rate: 595 hTRIG6 rate: 65	hTRIG4 rate: 121 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: 6/8 LH2	Events 220k Charge 35.7nC	Active trigger LiveTime fraction (NPS Scaler Gui) 100	Max NPS anode current (single crystal) 11.12 (μA)
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Run Number: 5780	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 15:08 Stop time (from RC): 15:48	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1426 hTRIG5 rate: 186	hTRIG3 rate: 566 hTRIG6 rate: 68.7	hTRIG4 rate: 118 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: 7/8 LH2	Events 282k Charge 43.2nC	Active trigger LiveTime fraction (NPS Scaler Gui) 100	Max NPS anode current (single crystal) 10.27 (μA)
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# p(e,e') p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 2024/4/12  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.375 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: 1.713 From GUI θ(TV): 39.81 Nearest 0.005

**SHMS**  
 θ(TV): 30.70 Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.32</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.58</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5781</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:50</u> Stop time (from RC): <u>16:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.38M</u> hTRIG3 rate: <u>506</u> hTRIG4 rate: <u>126.9</u> hTRIG5 rate: <u>176.3</u> hTRIG6 rate: <u>68.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8/8 LH2</u>	Events <u>2234</u> Charge <u>34.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.7</u> (μA)
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Run Number: <u>5782</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:23</u> Stop time (from RC): <u>16:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.53M</u> hTRIG3 rate: <u>330</u> hTRIG4 rate: <u>30</u> hTRIG5 rate: <u>81.4</u> hTRIG6 rate: <u>45.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>12 μA, LH2</u>	Events <u>1154</u> Charge <u>14.0</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>6.6</u> (μA)
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Run Number: <u>5783</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:48</u> Stop time (from RC): <u>17:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.4M</u> hTRIG3 rate: <u>250</u> hTRIG4 rate: <u>81</u> hTRIG5 rate: <u>61.4</u> hTRIG6 rate: <u>43.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>3 μA, LH2</u>	Events <u>1404</u> Charge <u>15.0</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.95</u> (μA)
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Run Number: <u>5784</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:25</u> Stop time (from RC): <u>17:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.45M</u> hTRIG3 rate: <u>492</u> hTRIG4 rate: <u>125.9</u> hTRIG5 rate: <u>185.9</u> hTRIG6 rate: <u>68.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> in <input checked="" type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: <u>20 μA, coin, LH2</u>	Events <u>113.9</u> Charge <u>17.5</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) _____ (μA)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 2024/4/12  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-2**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6370 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0.1719  $\theta$ (TV): 33.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 462 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5785</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:44</u>	Stop time (from RC): <u>18:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.42M</u>	hTRIG3 rate <u>507</u>	hTRIG4 rate <u>132</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>Ps3=0 coin_sparse, 20 <math>\mu</math>A, LH2</u>			Events <u>442k</u> Charge <u>17c</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.8</u> ( $\mu$ A)			

Run Number: <u>5786</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:12</u>	Stop time (from RC): <u>18:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.84M</u>	hTRIG3 rate <u>923</u>	hTRIG4 rate <u>154</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments: <u>18 <math>\mu</math>A, Dummy</u>			Events <u>243k</u> Charge <u>25.3</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>11.9</u> ( $\mu$ A)			

Run Number: <u>5787</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:44</u>	Stop time (from RC): <u>19:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.95M</u>	hTRIG3 rate <u>940</u>	hTRIG4 rate <u>157</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments: <u>18 <math>\mu</math>A, Dummy</u>			Events <u>242k</u> Charge <u>24.3</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>17.5</u> ( $\mu$ A)			

Run Number: <u>5788</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:31</u>	Stop time (from RC): <u>20:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6M</u>	hTRIG3 rate <u>1137</u>	hTRIG4 rate <u>198</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments: <u>1/15 LD2</u>			Events <u>322k</u> Charge <u>15c</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.7</u> ( $\mu$ A)			

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 2024/4/12  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

Kinematics: KinC\_x60-1

### Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6371 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.84 mm		0.30 mm
Nomin:		Nomin:
3H07C	X	Y
0.74 mm		0.29 mm
Nomin:		Nomin:

HMS  
p: +0.719 θ(TV): 39.91  
From GUI Nearest 0.005

SHMS  
θ(TV): 30.20  
Nearest 0.005

NPS  
θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 465 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5789	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 20:03 Stop time (from RC): 20:34	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.62M hTRIG5 rate: 411	hTRIG3 rate: 1148 hTRIG6 rate: 83	hTRIG4 rate: 209 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 2/15 LD2  
 Events 326k Charge 15.8 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.66 (μA)

Run Number: 5790	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 20:35 Stop time (from RC): 21:05	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.61M hTRIG5 rate: 435	hTRIG3 rate: 1131 hTRIG6 rate: 89.5	hTRIG4 rate: 201 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 3/15 LD2  
 Events 348k Charge 17.4 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.33 (μA)

Run Number: 5791	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 21:06 Stop time (from RC): 21:37	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.66M hTRIG5 rate: 442	hTRIG3 rate: 1140 hTRIG6 rate: 103.9	hTRIG4 rate: 193.5 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 4/15 LD2  
 Events 330k Charge 16.0 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.1 (μA)

Run Number: 5792	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 22:39 Stop time (from RC): 22:10	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.65M hTRIG5 rate: 425	hTRIG3 rate: 1144 hTRIG6 rate: 102.8	hTRIG4 rate: 194 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: 5/15 LD2  
 Events 348k Charge 17.2 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.38 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 2024/4/12  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60\_1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6371 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0.1719 θ(TV): 33.81  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.70  
Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30°  
Nearest 0.005

3H07A	X	Y
1.84 mm		0.29 mm
Nomin:		
3H07C	X	Y
0.75 mm		0.30 mm
Nomin:		

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5733	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 22:11 Stop time (from RC): 22:42	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.59M hTRIG5 rate: 402	hTRIG3 rate: 1093 hTRIG6 rate: 98	hTRIG4 rate: 198 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 10 μA	Comments: 6/15 LD2		Events: 325k Charge: 15.50	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 8.97 (μA)		

Run Number: 5734	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 22:43 Stop time (from RC): 23:13	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.62M hTRIG5 rate: 429	hTRIG3 rate: 1117 hTRIG6 rate: 103	hTRIG4 rate: 191 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 10 μA	Comments: 7/15 LD2		Events: 342k Charge: 17.0	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 9.50 (μA)		

Run Number: 5735	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 23:14 Stop time (from RC): 23:45	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.66M hTRIG5 rate: 445	hTRIG3 rate: 1166 hTRIG6 rate: 96	hTRIG4 rate: 207 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 10 μA	Comments: 8/15 LD2		Events: 321k Charge: 15.5	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 9.75 (μA)		

Run Number: 5796	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 23:46 Stop time (from RC): 00:25	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.60M hTRIG5 rate: 423	hTRIG3 rate: 1121 hTRIG6 rate: 92.8	hTRIG4 rate: 199 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 10 μA	Comments: 9/15 LD2		Events: 456k Charge: 22.0	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 9.50 (μA)		

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 29/4/13  
yy mm dd

Initials: DFC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60.1

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2 μm

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.882</u>	mm	<u>1.209</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.749</u>	mm	<u>0.276</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +01.719 θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.760  
Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5797</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.61e6</u>	hTRIG3 rate <u>1131.7</u>	hTRIG4 rate <u>166.4</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>01:03</u>		hTRIG5 rate <u>411.0</u>	hTRIG6 rate <u>98.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 10/15</u>	Events <u>470k</u> Charge <u>20 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.07</u> (μA)
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Run Number: <u>5798</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.59e6</u>	hTRIG3 rate <u>1143.2</u>	hTRIG4 rate <u>196.5</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>01:41</u>		hTRIG5 rate <u>414.2</u>	hTRIG6 rate <u>96.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>only 20 mm x 8 beam LD2 11/15</u>	Events <u>291k</u> Charge <u>12.5 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.58</u> (μA)
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Run Number: <u>5799</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.65e6</u>	hTRIG3 rate <u>1160.9</u>	hTRIG4 rate <u>195.5</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>02:17</u>		hTRIG5 rate <u>453.2</u>	hTRIG6 rate <u>101.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 12/15</u>	Events <u>332k</u> Charge <u>6.1 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.28</u> (μA)
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Run Number: <u>5800</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.60e6</u>	hTRIG3 rate <u>1118.5</u>	hTRIG4 rate <u>196.8</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>02:53</u>		hTRIG5 rate <u>467.3</u>	hTRIG6 rate <u>93.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 13/15</u>	Events <u>377k</u> Charge <u>18.2 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>9.37</u> (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/4/13  
yy mm dd

Initials: Doc

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60.1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2 mm

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.87</u> mm		<u>0.338</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.744</u> mm		<u>0.721</u> mm
Nomin:		Nomin:

**HMS**  
p: +16.719 From GUI θ(TV): 39.81 Nearest 0.005

**SHMS**  
θ(TV): 30.700 Nearest 0.005

**NPS**  
θ = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5801</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:55</u> Stop time (from RC): <u>03:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.67e6</u> hTRIG5 rate <u>418.8</u>	hTRIG3 rate <u>1135.2</u> hTRIG6 rate <u>98.9</u>	hTRIG4 rate <u>195.0</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>LD2 14/15</u>			Events <u>348k</u> Charge <u>17.6nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.09</u> (μA)	

Run Number: <u>5802</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:27</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.58e6</u> hTRIG5 rate <u>451.2</u>	hTRIG3 rate <u>1144.7</u> hTRIG6 rate <u>98.6</u>	hTRIG4 rate <u>195.7</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: <u>LD2 15/15</u>			Events <u>389k</u> Charge <u>19nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.19</u> (μA)	

Run Number: <u>5803</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:05</u> Stop time (from RC): <u>04:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.01e6</u> hTRIG5 rate <u>210.7</u>	hTRIG3 rate <u>813.3</u> hTRIG6 rate <u>62.4</u>	hTRIG4 rate <u>141.8</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>7</u> μA	Comments: <u>20min Run 7uA</u>			Events <u>203k</u> Charge <u>7.7nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>6.13</u> (μA)	

Run Number: <u>5804</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>5:00</u> Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.99e5</u> hTRIG5 rate <u>120.1</u>	hTRIG3 rate <u>582.8</u> hTRIG6 rate <u>54.4</u>	hTRIG4 rate <u>120.9</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>5</u> μA	Comments: <u>30min Run 5uA</u>			Events <u>221k</u> Charge <u>9nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.59</u> (μA)	

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 4 / 13  
 yy mm dd

Initials: DR

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60.1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.83</u> mm		<u>0.33</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.32</u> mm
Nomin:		Nomin:

**HMS**  
 p: 1.719 From GUI θ(TV): 39.81 Nearest 0.005

**SHMS**  
 θ(TV): 30.708 Nearest 0.005

**NPS**  
 θ = SHMS 14.4  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>58085</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>+1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:34</u> Stop time (from RC): <u>05:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.7e6</u> hTRIG5 rate: <u>444.6</u>	hTRIG3 rate: <u>71908</u> hTRIG6 rate: <u>102.1</u>	hTRIG4 rate: <u>209.7</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: _____		Events <u>95k</u> Charge <u>9.3 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>9.71</u> (μA)		

Run Number: <u>58046</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:23</u> Stop time (from RC): <u>06:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.37e6</u> hTRIG5 rate: <u>173.1</u>	hTRIG3 rate: <u>515.7</u> hTRIG6 rate: <u>63.7</u>	hTRIG4 rate: <u>123.9</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>LH2 1/8</u>		Events <u>23k</u> Charge <u>24 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>10.41</u> (μA)		

Run Number: <u>5807</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:56</u> Stop time (from RC): <u>07:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.34e6</u> hTRIG5 rate: <u>179.1</u>	hTRIG3 rate: <u>518.9</u> hTRIG6 rate: <u>67.2</u>	hTRIG4 rate: <u>128.8</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>LH2 2/8 = 1/4 =</u>		Events <u>333k</u> Charge <u>26 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>10.76</u> (μA)		

Run Number: <u>5808</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:31</u> Stop time (from RC): <u>08:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.27e6</u> hTRIG5 rate: <u>191.6</u>	hTRIG3 rate: <u>500.4</u> hTRIG6 rate: <u>66.7</u>	hTRIG4 rate: <u>122.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>LH2 3/8</u>		Events <u>227k</u> Charge <u>35 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>10.87</u> (μA)		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/13  
yy mm dd

Initials: JAC

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60.1

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2 mm

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.700  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.83</u> mm		<u>0.32</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.33</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5809</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:05</u> Stop time (from RC): <u>8:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.14e6</u> hTRIG5 rate <u>176.5</u>	hTRIG3 rate <u>516.4</u> hTRIG6 rate <u>200.5</u>	hTRIG4 rate <u>128.6</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LH2 4/8</u>	Events <u>240k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.75</u> ( $\mu$ A)
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Run Number: <u>5810</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:39</u> Stop time (from RC): <u>9:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.34e6</u> hTRIG5 rate <u>173</u>	hTRIG3 rate <u>507</u> hTRIG6 rate <u>62</u>	hTRIG4 rate <u>124</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LH2 5/8</u>	Events <u>250k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u></u> ( $\mu$ A)
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Run Number: <u>5811</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:17</u> Stop time (from RC): <u>9:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.29e6</u> hTRIG5 rate <u>181</u>	hTRIG3 rate <u>506</u> hTRIG6 rate <u>65.2</u>	hTRIG4 rate <u>126</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LH2 6/8</u>	Events <u>257k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u></u> ( $\mu$ A)
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Run Number: <u>5812</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:56</u> Stop time (from RC): <u>10:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: <u>LH2 7/8</u>	Events <u></u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u></u> ( $\mu$ A)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/13  
yy mm dd

Initials: A. Hough

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_60-1**

E<sub>beam</sub>: 6.372 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.89</u> mm		<u>0.38</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.78</u> mm		<u>0.418</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +/- \_\_\_\_\_ θ(TV): 39.81  
From GUI Nearest 0.005

θ(TV): 30.70  
Nearest 0.005

θ = SHMS 14.4  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5813</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.32e6</u>	hTRIG3 rate <u>492</u>	hTRIG4 rate <u>113</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>LH2 8/8</u>		Stop time (from RC): <u>11:05</u>	Events <u>234k</u> Charge <u>C</u>	hTRIG5 rate <u>177</u>	hTRIG6 rate <u>60.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5814+5815</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.</u>	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ μA	Comments: <u>Junk</u>		Stop time (from RC): _____	Events _____ Charge _____ C	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5816</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.75e5</u>	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>12</u> μA	Comments: <u>1 12 μA run</u>		Stop time (from RC): <u>12:5</u>	Events <u>111k</u> Charge _____ C	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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Run Number: <u>5817</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3.80e5</u>	hTRIG3 rate <u>249</u>	hTRIG4 rate <u>78.9</u>
I <sub>beam</sub> : <u>9</u> μA	Comments: <u>1 9 μA run</u>		Stop time (from RC): <u>12:40</u>	Events <u>137k</u> Charge _____ C	hTRIG5 rate <u>60.9</u>	hTRIG6 rate <u>44.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/13  
yy mm dd

Initials: A. Nogh

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60.1**

E<sub>beam</sub>: 6.372 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>0.83</u> mm		<u>0.45</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.82</u> mm		<u>0.46</u> mm
Nomin:		Nomin:

**HMS**  
p: +0.1719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 46.8 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5818</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : _____ $\mu$ A	Comments: <u>Junk, Configuration change problems</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

Run Number: <u>5819</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:51</u> Stop time (from RC): <u>13:10</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>1 20 <math>\mu</math>A run</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

Run Number: <u>5820</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:24</u> Stop time (from RC): <u>13:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments: <u>1 18 <math>\mu</math>A run, Dummy</u>			Events <u>312k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

Run Number: <u>5821</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:02</u> Stop time (from RC): <u>14:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments: <u>1 12 <math>\mu</math>A run, Dummy</u>			Events <u>217k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/13  
yy mm dd

Initials: A. Mough

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.871 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.93</u> mm		<u>0.48</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.82</u> mm		<u>0.51</u> mm
Nomin:		Nomin:

**HMS**  
p: +0.1719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS 34.70  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5822</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.60e6</u>	hTRIG3 rate <u>1137</u>	hTRIG4 rate <u>184</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>15:20</u>		hTRIG5 rate <u>428</u>	hTRIG6 rate <u>101</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 1st LD2 run, out of 15  
Events 328k Charge 16.1 C Active trigger LiveTime fraction (NPS Scaler Gui) mC Max NPS anode current (single crystal) (μA)

Run Number: <u>5823</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.03e6</u>	hTRIG3 rate <u>1339</u>	hTRIG4 rate <u>212</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>15:58</u>		hTRIG5 rate <u>624</u>	hTRIG6 rate <u>114.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 2nd run, current change to 12 μA  
Events 410k Charge 20.9 C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) (μA)

Run Number: <u>5824</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.06e6</u>	hTRIG3 rate <u>1327</u>	hTRIG4 rate <u>231</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>16:30</u>		hTRIG5 rate <u>678</u>	hTRIG6 rate <u>125</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 3rd run  
Events 400k Charge 20.5 C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) (μA)

Run Number: <u>5825</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.10e6</u>	hTRIG3 rate <u>1326</u>	hTRIG4 rate <u>229</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>17:01</u>		hTRIG5 rate <u>634</u>	hTRIG6 rate <u>129</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: 4th run of 15  
Events 410k Charge 20.9 C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) (μA) ~11

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/13  
yy mm dd

Initials: JOH

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-1

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>2.00</u> mm		<u>0.53</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.95</u> mm		<u>0.60</u> mm
Nomin:		Nomin:

**HMS**  
p: +0 1.719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 414.40  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5826</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:02</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.11e6</u>	hTRIG3 rate <u>1348</u>	hTRIG4 rate <u>219</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>17:32</u>		hTRIG5 rate <u>639</u>	hTRIG6 rate <u>124</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#5/15</u>	Events <u>395k</u> Charge <u>19.6</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> ( $\mu$ A)			

Run Number: <u>5827</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:33</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.07e6</u>	hTRIG3 rate <u>1365</u>	hTRIG4 rate <u>223</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>18:03</u>		hTRIG5 rate <u>635</u>	hTRIG6 rate <u>122</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#6/15</u>	Events <u>393k</u> Charge <u>19.1</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> ( $\mu$ A)			

Run Number: <u>5828</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:04</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.07e6</u>	hTRIG3 rate <u>1343</u>	hTRIG4 rate <u>228</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>18:34</u>		hTRIG5 rate <u>628</u>	hTRIG6 rate <u>132</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#7/15</u>	Events <u>379k</u> Charge <u>19.3</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> ( $\mu$ A)			

Run Number: <u>5829</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:35</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.07e6</u>	hTRIG3 rate <u>1352</u>	hTRIG4 rate <u>230</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>19:05</u>		hTRIG5 rate <u>625</u>	hTRIG6 rate <u>121</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#8/15</u>	Events <u>404k</u> Charge <u>20.6</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> ( $\mu$ A)			

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/13  
yy mm dd

Initials: JOH

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-1

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>2.14</u> mm	<u>0.42</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>1.11</u> mm	<u>0.50</u> mm	
Nomin:		Nomin:

read the wrong lines →

**HMS**

p: +01.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**

θ(TV): 30.70  
Nearest 0.005

**NPS**

θ = SHMS +14.40  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5830</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.02e6</u>	hTRIG3 rate <u>1332</u>	hTRIG4 rate <u>228</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>19:36</u>		hTRIG5 rate <u>613</u>	hTRIG6 rate <u>120</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#9/15 beam is getting trippy last Nomin</u>	Events <u>365k</u> Charge <u>18.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)
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Run Number: <u>5831</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.07e6</u>	hTRIG3 rate <u>1365</u>	hTRIG4 rate <u>236</u>
beam: <u>12</u> μA			Stop time (from RC): <u>20:07</u>		hTRIG5 rate <u>665</u>	hTRIG6 rate <u>130</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#10/15</u>	Events <u>389k</u> Charge <u>19.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)
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Run Number: <u>5832</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.10e6</u>	hTRIG3 rate <u>1358</u>	hTRIG4 rate <u>229</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>20:38</u>		hTRIG5 rate <u>658</u>	hTRIG6 rate <u>126</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#11/15</u>	Events <u>386k</u> Charge <u>19.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)
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Run Number: <u>5833</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.01e6</u>	hTRIG3 rate <u>1326</u>	hTRIG4 rate <u>227</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>21:09</u>		hTRIG5 rate <u>616</u>	hTRIG6 rate <u>131</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> rin <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: <u>#12/15</u>	Events <u>383k</u> Charge <u>19.4C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)
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# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/13  
yy mm dd

Initials: Jolt

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.70  
Nearest 0.005

**NPS**  
θ = SHMS 14.40  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.27</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 9 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5834</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.05e6</u>	hTRIG3 rate <u>1340</u>	hTRIG4 rate <u>231</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>21:40</u>		hTRIG5 rate <u>621</u>	hTRIG6 rate <u>127</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#13 / 15</u>		Events <u>410k</u> Charge <u>21.0</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~10-11</u> (μA)		

Run Number: <u>5835</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>22:12</u>		hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#14 / 15</u>		Events <u>376k</u> Charge <u>20.0</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)		

Run Number: <u>5836</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.0e6</u>	hTRIG3 rate <u>1340</u>	hTRIG4 rate <u>233</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>22:43</u>		hTRIG5 rate <u>605</u>	hTRIG6 rate <u>118</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#15 / 15</u>		Events <u>376k</u> Charge <u>18.9</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)		

Run Number: <u>5837</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.16e6</u>	hTRIG3 rate <u>905</u>	hTRIG4 rate <u>164</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>23:05</u>		hTRIG5 rate <u>245</u>	hTRIG6 rate <u>74</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>SMA</u>		Events <u>190k</u> Charge <u>8.6</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>(μA)</u>		

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date:    /   /    Initials:    

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other:    

HMS, field, current OK?  
 yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.849</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
 p: +e 1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.70  
Nearest 0.005

**NPS**  
 θ = SHMS 14.40  
-16.30°  
Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5838</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:07</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>8.46e5</u>	hTRIG3 rate <u>681</u>	hTRIG4 rate <u>146</u>
I <sub>beam</sub> : <u>6</u> μA	Comments: <u>Beam died after 20 min, down for ~5 min</u>			Events <u>200k</u> Charge <u>8.3mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~5.5</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>5839</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:40</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate <u>2.05e6</u>	hTRIG3 rate <u>1372</u>	hTRIG4 rate <u>241</u>
I <sub>beam</sub> : <u>12</u> μA	Comments: <u>Beam off several times for ~23 min</u>			Events <u>201k</u> Charge <u>9.9mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)	
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>5840</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>0:59</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>8.01 · 10<sup>5</sup></u>	hTRIG3 rate <u>544.5</u>	hTRIG4 rate <u>120.6</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>#1/8</u>			Events <u>217k</u> <u>33.13</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>11.05</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>5841</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:35</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>7.8 x 10<sup>5</sup></u>	hTRIG3 rate <u>530.0</u>	hTRIG4 rate <u>125.0</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>#2/8</u>			Events <u>225k</u> <u>35.04</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>   </u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> n_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/14  
 yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u>	mm	<u>0.295</u> mm
Nomin:		
3H07C	X	Y
<u>0.746</u>	mm	<u>0.304</u> mm
Nomin:		

**HMS**

**SHMS**

**NPS**

p: +0.179 From GUI θ(TV): 39.81 Nearest 0.005

θ(TV): 30.70 Nearest 0.005

θ = SHMS 14.40  
~~-16.30°~~ Nearest 0.005  
~~-16.55°~~

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = off Amp NPS Upstream Corr. I = off Amp

**Run Number:**

5842

I<sub>beam</sub>: 20 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

2:09

Stop time (from RC):

2:40

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

7.89·10<sup>5</sup>

hTRIG5 rate

161.0

hTRIG3 rate

526.4

hTRIG6 rate

62.5

hTRIG4 rate

123.4

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: # 3/8

Events 221K  
~~34.08~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) (μA)

**Run Number:**

5843

I<sub>beam</sub>: 20 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

2:42

Stop time (from RC):

3:16

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

7.75·10<sup>5</sup>

hTRIG5 rate

165.0

hTRIG3 rate

525.0

hTRIG6 rate

61.4

hTRIG4 rate

122.3

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: # 4/8

Events 240K  
~~36.57~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) (μA)

**Run Number:**

5844

I<sub>beam</sub>: 20 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

3:18

Stop time (from RC):

3:49

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

7.78·10<sup>5</sup>

hTRIG5 rate

162.4

hTRIG3 rate

528.6

hTRIG6 rate

60.2

hTRIG4 rate

124.5

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: # 5/8

Events 223K  
~~34.48~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) (μA) 10.58

**Run Number:**

5845

I<sub>beam</sub>: 20 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 0  
 PS5: -1  
 PS6: -1

Start time (from RC):

03:50

Stop time (from RC):

04:23

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

7.73·10<sup>5</sup>

hTRIG5 rate

174.1

hTRIG3 rate

524.2

hTRIG6 rate

63.9

hTRIG4 rate

123.1

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: # 6/8  
only ~ 11 min. of beam

Events 137K  
~~13.44~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) (μA) 10.15

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/14  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.80</u> mm		<u>0.38</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.806</u> mm		<u>0.309</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.719 θ(TV): 34.81  
From GUI Nearest 0.005

θ(TV): 30.70  
Nearest 0.005

θ = SHMS 14.15  
-16.30° Nearest 0.005  
-16.55

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0.66 Amp NPS Upstream Corr. I = 46 Amp

Run Number: <u>5846</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>5:45</u>	Stop time (from RC): <u>5:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>8.03 · 10<sup>5</sup></u>	hTRIG3 rate <u>503.7</u>	hTRIG4 rate <u>121.4</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <del>#7/7</del> lost beam, ended run <u>#8</u> beam on ≈ 7 min			Events <u>294K</u> <u>8.46</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.65</u> (μA)		

coin\_sparse  coin  coin\_sparse\_low

Run Number: <u>5847</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:12</u>	Stop time (from RC): <u>6:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.91 · 10<sup>5</sup></u>	hTRIG3 rate <u>529.1</u>	hTRIG4 rate <u>125.9</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: # 7/8; extra time to compensate for last 2 short runs			Events <u>294K</u> <u>42.65</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.52</u> (μA)		

coin\_sparse  coin  coin\_sparse\_low

Run Number: <u>5848</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:59</u>	Stop time (from RC): <u>7:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.95 · 10<sup>5</sup></u>	hTRIG3 rate <u>521.7</u>	hTRIG4 rate <u>117.4</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: #8/8			Events <u>226K</u> <u>31.81</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.83</u> (μA)		

coin\_sparse  coin  coin\_sparse\_low

Run Number: <u>5849</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>7:39</u>	Stop time (from RC): <u>8:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.43 · 10<sup>5</sup></u>	hTRIG3 rate <u>321.1</u>	hTRIG4 rate <u>85.4</u>
I <sub>beam</sub> : <u>12</u> μA	Comments:			Events <u>130K</u> <u>16.69</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>6.17</u> (μA)		

coin\_sparse  coin  coin\_sparse\_low

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24, 04, 14  
yy mm dd

Initials: Y.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60\_1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
1.80	mm	0.38
Nomin:		Nomin:
3H07C	X	Y
0.806	mm	0.309
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +1.719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

$\theta$ (TV): 30.10  
Nearest 0.005

$\theta$  = SHMS 14.15  
-16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 464 Amp NPS Upstream Corr. I = off Amp NPS Upstream Corr. I = off Amp

Run Number: <u>5850</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): <u>08:06</u> Stop time (from RC): <u>8:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>3.7 x 10<sup>5</sup></u> hTRIG5 rate: <u>62.4</u>	hTRIG3 rate: <u>242.5</u> hTRIG6 rate: <u>44.7</u>	hTRIG4 rate: <u>75.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 15.5C Charge 15.5C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 0.23 ( $\mu$ A)

Run Number: <u>5851</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): <u>8:40</u> Stop time (from RC): <u>8:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.42 x 10<sup>6</sup></u> hTRIG5 rate: <u>186</u>	hTRIG3 rate: <u>515.9</u> hTRIG6 rate: <u>64.4</u>	hTRIG4 rate: <u>136.3</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 91.535 Charge 14.7C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 14.3 ( $\mu$ A)

Run Number: <u>5852</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: 0 PS4: - PS5: - PS6: -	Start time (from RC): <u>8:57</u> Stop time (from RC): <u>9:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.28 x 10<sup>6</sup></u> hTRIG5 rate: <u>181</u>	hTRIG3 rate: <u>520</u> hTRIG6 rate: <u>63.7</u>	hTRIG4 rate: <u>134</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 523K Charge 19.45C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 14.3 ( $\mu$ A)

Run Number: <u>5853</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: 0 PS4: - PS5: - PS6: -	Start time (from RC): <u>9:26</u> Stop time (from RC): <u>10:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>9.25 x 10<sup>5</sup></u> hTRIG5 rate: <u>226.1</u>	hTRIG3 rate: <u>954.2</u> hTRIG6 rate: <u>66.9</u>	hTRIG4 rate: <u>169.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 322K Charge 35.4C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 3.37 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/14  
yy mm dd

Initials: Y.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

**HMS, field, current OK?**  
 yes  no

E<sub>beam</sub>: 6.971 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +6 1.719 θ(TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.10  
Nearest 0.005

**NPS**  
 θ = SHMS 14.15  
~~-16.30°~~ Nearest 0.005

3H07A	X	Y
<u>2.02</u> mm		<u>0.43</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.93</u> mm		mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 400 Amp NPS Upstream Corr. I = off Amp NPS Upstream Corr. I = off Amp

Run Number: 5854  
 I<sub>beam</sub>: 12 αA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -  
 PS2: -  
 PS3: -  
 PS4: 0  
 PS5: -  
 PS6: -

Start time (from RC): 10:36  
 Stop time (from RC): 11:08

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.11 x 10<sup>5</sup>  
 hTRIG5 rate: 246.5

hTRIG3 rate: 617  
 hTRIG6 rate: 66.4

hTRIG4 rate: 114.9  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 220K  
 Charge 11.8 C  
 21.7

Active trigger LiveTime fraction (NPS Scaler Gui): 100%

Max NPS anode current (single crystal): 2.28 (μA)

Run Number: 5855  
 I<sub>beam</sub>: 12 αA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -  
 PS2: -  
 PS3: -  
 PS4: 0  
 PS5: -  
 PS6: -

Start time (from RC): 11:22  
 Stop time (from RC): 11:55

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.04 x 10<sup>6</sup>  
 hTRIG5 rate: 625.9

hTRIG3 rate: 1350.7  
 hTRIG6 rate: 126.6

hTRIG4 rate: 229.7  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 432K  
 Charge 11.9 C  
 22.1

Active trigger LiveTime fraction (NPS Scaler Gui): 100%

Max NPS anode current (single crystal): 1.72 (μA)

Run Number: 5856  
 I<sub>beam</sub>: 12 αA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -  
 PS2: -  
 PS3: -  
 PS4: 0  
 PS5: -  
 PS6: -

Start time (from RC): 11:56  
 Stop time (from RC): 12:30

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.99 x 10<sup>6</sup>  
 hTRIG5 rate: 618.4

hTRIG3 rate: 1316.5  
 hTRIG6 rate: 123.3

hTRIG4 rate: 211.3  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 450K  
 Charge 11.9 C  
 26.0

Active trigger LiveTime fraction (NPS Scaler Gui): 100%

Max NPS anode current (single crystal): 1.92 (μA)

Run Number: 5857  
 I<sub>beam</sub>: 5857 αA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -  
 PS2: -  
 PS3: -  
 PS4: 0  
 PS5: -  
 PS6: -

Start time (from RC): 12:32  
 Stop time (from RC): 13:03

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.09 x 10<sup>6</sup>  
 hTRIG5 rate: 640.1

hTRIG3 rate: 1371  
 hTRIG6 rate: 138.6

hTRIG4 rate: 232.9  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 402K  
 Charge 11.8 C  
 20.7

Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%

Max NPS anode current (single crystal): 2.03 (μA)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/14  
yy mm dd

Initials: Y.G.

Use a separate sheet for each configuration.

Kinematics: KinC\_x60-1

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.374 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.88</u> mm		<u>0.4</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.78</u> mm		<u>0.46</u> mm
Nomin:		Nomin:

HMS  
p: +0 1.719  $\theta$ (TV): 39.71  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 30.70  
Nearest 0.005

NPS  
 $\theta$  = SHMS 14.15  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = off Amp NPS Upstream Corr. I = off Amp

15 → 4

Run Number: <u>5858</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>13:04</u> Stop time (from RC): <u>13:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.1x10<sup>6</sup></u> hTRIG5 rate: <u>657.4</u>	hTRIG3 rate: <u>1361.8</u> hTRIG6 rate: <u>128.6</u>	hTRIG4 rate: <u>228.8</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Comments:		Events: <u>417K</u> Charge: <u>1.11C</u> <u>21.6</u>	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>2.20</u> ( $\mu$ A)	

10 → 5

Run Number: <u>5859</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>13:36</u> Stop time (from RC): <u>14:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2x10<sup>6</sup></u> hTRIG5 rate: <u>610.8</u>	hTRIG3 rate: <u>1351.9</u> hTRIG6 rate: <u>116.6</u>	hTRIG4 rate: <u>238.7</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Comments:		Events: <u>434K</u> Charge: <u>1.05C</u> <u>22.4</u>	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>2.17</u> ( $\mu$ A)	

10 → 6

Run Number: <u>5860</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>14:12</u> Stop time (from RC): <u>14:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2x10<sup>6</sup></u> hTRIG5 rate: <u>631</u>	hTRIG3 rate: <u>1334.7</u> hTRIG6 rate: <u>121.6</u>	hTRIG4 rate: <u>240.1</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Comments:		Events: <u>397K</u> Charge: <u>1.04C</u> <u>20.2</u>	Active trigger fraction (NPS Scaler Gui): <u>99.9%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>2.04</u> ( $\mu$ A)	

10 → 7

Run Number: <u>5861</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>14:43</u> Stop time (from RC): <u>15:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.1M</u> hTRIG5 rate: <u>672</u>	hTRIG3 rate: <u>1374</u> hTRIG6 rate: <u>132.5</u>	hTRIG4 rate: <u>225</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Comments: <u>7/15, LD2</u>		Events: <u>371K</u> Charge: <u>1.03C</u> <u>93.3%</u>	Active trigger fraction (NPS Scaler Gui): <u>93.3%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>11.0</u> ( $\mu$ A)	

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/11  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-2**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.27 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.24</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
p: +1.713  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5862</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.07M</u>	hTRIG3 rate <u>1341</u>	hTRIG4 rate <u>225</u>
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Stop time (from RC): <u>15:46</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>613</u>	hTRIG6 rate <u>130</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8/25, LD2</u>	Events <u>405k</u> Charge <u>20.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.8</u> ( $\mu$ A)
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Run Number: <u>5863</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.08M</u>	hTRIG3 rate <u>1329</u>	hTRIG4 rate <u>225.5</u>
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Stop time (from RC): <u>16:18</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>584.</u>	hTRIG6 rate <u>122.5</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>9/25, LD2</u>	Events <u>401k</u> Charge <u>20.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.8</u> ( $\mu$ A)
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Run Number: <u>5864</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.05M</u>	hTRIG3 rate <u>1378</u>	hTRIG4 rate <u>221</u>
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Stop time (from RC): <u>16:48</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>614</u>	hTRIG6 rate <u>121.5</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>10/25 LD2</u>	Events <u>395k</u> Charge <u>20.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>10.87</u> ( $\mu$ A)
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Run Number: <u>5865</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1M</u>	hTRIG3 rate <u>1386</u>	hTRIG4 rate <u>240</u>
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Stop time (from RC): <u>17:20</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>644</u>	hTRIG6 rate <u>126</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>12/25, LD2</u>	Events <u>375k</u> Charge <u>18.8</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.51</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/14  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0.1719  $\theta$ (TV): 39.21  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.86</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5866</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.06M</u>	hTRIG3 rate <u>1380</u>	hTRIG4 rate <u>225</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments: <u>12/15, LD2</u>			Events <u>387</u> k Charge <u>19.7</u> C	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>11.0</u> ( $\mu$ A)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5867</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.0M</u>	hTRIG3 rate <u>1325</u>	hTRIG4 rate <u>240</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments: <u>13/15, LD2</u>			Events <u>378</u> k Charge <u>18.2</u> C	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>10.7</u> ( $\mu$ A)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5868</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.5M</u>	hTRIG3 rate <u>1342</u>	hTRIG4 rate <u>230</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments: <u>14/15, LD2</u>			Events <u>381</u> k Charge <u>18.6</u> C	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>11.0</u> ( $\mu$ A)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>5869</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.09M</u>	hTRIG3 rate <u>1373</u>	hTRIG4 rate <u>243</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments: <u>15/15, LD2</u>			Events <u>376</u> k Charge <u>18.8</u> C	Active trigger fraction (NPS Scaler Gui) <u>100%</u>	LiveTime <u>100%</u>	Max NPS anode current (single crystal) <u>10.2</u> ( $\mu$ A)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/14  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.1718  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

$\theta$ (TV): 30.70  
Nearest 0.005

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

Collimator:

HMS: Large Sieve

NPS Sweep Magnet I = 460 Amp

NPS Upstream Corr. I = \_\_\_\_\_ Amp

NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number:

5870

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

19:27

Stop time (from RC):

19:47

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.16 M

hTRIG3 rate

918

hTRIG4 rate

167

hTRIG5 rate

255

hTRIG6 rate

71

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

8  $\mu$ A, LD2

Events 185k  
Charge 8.6C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 7.07 ( $\mu$ A)

Run Number:

5871

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

19:49

Stop time (from RC):

20:19

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

0.8 M

hTRIG3 rate

685

hTRIG4 rate

133

hTRIG5 rate

165

hTRIG6 rate

58

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

6  $\mu$ A, LD2

Events 229k  
Charge 10C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 5.5 ( $\mu$ A)

Run Number:

5872

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

20:23

Stop time (from RC):

20:39

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.0 M

hTRIG3 rate

1349

hTRIG4 rate

239

hTRIG5 rate

650

hTRIG6 rate

125

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

12  $\mu$ A, coin, LD2

Events 205k  
Charge 10.4C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 10.9 ( $\mu$ A)

Run Number:

5874

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

20:51

Stop time (from RC):

21:22

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.25 M

hTRIG3 rate

524

hTRIG4 rate

129

hTRIG5 rate

176

hTRIG6 rate

62

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

1/8 LH2

Events 206k  
Charge 30.8

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 10.4 ( $\mu$ A)

no # 5873 run, due to LOBA reboot.

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/4/14  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

E<sub>beam</sub>: 6.341 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.28</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.718 From GUI  $\theta$ (TV): 38.81 Nearest 0.005

$\theta$ (TV): 30.70 Nearest 0.005

$\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 460 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5875</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.27M</u>	hTRIG3 rate <u>522</u>	hTRIG4 rate <u>126</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>2/8 LH2</u>		Stop time (from RC): <u>21:53</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>178</u>	hTRIG6 rate <u>63</u>	

coin\_sparse  coin  coin\_sparse\_low  Events 217k Charge 330 Active trigger fraction (NPS Scaler Gui) 100% LiveTime 100% Max NPS anode current (single crystal) 10.6 ( $\mu$ A)

Run Number: <u>5876</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.26M</u>	hTRIG3 rate <u>518</u>	hTRIG4 rate <u>123</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>3/8 LH2</u>		Stop time (from RC): <u>22:25</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>180</u>	hTRIG6 rate <u>66</u>	

coin\_sparse  coin  coin\_sparse\_low  Events 216k Charge 330 Active trigger fraction (NPS Scaler Gui) 100% LiveTime 100% Max NPS anode current (single crystal) 10.7 ( $\mu$ A)

Run Number: <u>5877</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.25M</u>	hTRIG3 rate <u>508</u>	hTRIG4 rate <u>128</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>4/8 LH2</u>		Stop time (from RC): <u>22:56</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>181</u>	hTRIG6 rate <u>64</u>	

coin\_sparse  coin  coin\_sparse\_low  Events 223k Charge 350 Active trigger fraction (NPS Scaler Gui) 100% LiveTime 100% Max NPS anode current (single crystal) 10.6 ( $\mu$ A)

Run Number: <u>5878</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.28M</u>	hTRIG3 rate <u>516</u>	hTRIG4 rate <u>134</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>5/8 LH2</u>		Stop time (from RC): <u>23:27</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>175</u>	hTRIG6 rate <u>64</u>	

coin\_sparse  coin  coin\_sparse\_low  Events 217k Charge 33.8 Active trigger fraction (NPS Scaler Gui) 100% LiveTime 100% Max NPS anode current (single crystal) 10.4 ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/14  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0 1.719  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5879</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:28</u> Stop time (from RC): <u>23:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.23M</u> hTRIG5 rate: <u>165</u>	hTRIG3 rate: <u>511</u> hTRIG6 rate: <u>64</u>	hTRIG4 rate: <u>127</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\alpha$ A	Comments: <u>6/8, LH2</u>		Events <u>214k</u> Charge <u>32.8</u> $\mu$ C	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>10.7</u> ( $\mu$ A)	

Run Number: <u>5880</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:58</u> Stop time (from RC): <u>0:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.21M</u> hTRIG5 rate: <u>174</u>	hTRIG3 rate: <u>503</u> hTRIG6 rate: <u>66</u>	hTRIG4 rate: <u>121</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\alpha$ A	Comments: <u>7/8, LH2</u>		Events <u>233k</u> Charge <u>35</u> $\mu$ C	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>10.4</u> ( $\mu$ A)	

Run Number: <u>5881</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>0:34</u> Stop time (from RC): <u>1:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.25M</u> hTRIG5 rate: <u>169</u>	hTRIG3 rate: <u>517</u> hTRIG6 rate: <u>66</u>	hTRIG4 rate: <u>130</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\alpha$ A	Comments: <u>8/8 LH2</u>		Events <u>206k</u> Charge <u>32</u> $\mu$ C	Active trigger fraction (NPS Scaler Gui): <u>100</u>	LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>10.3</u> ( $\mu$ A)	

Run Number: <u>5882</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:04</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>700kHz</u> hTRIG5 rate: <u>90</u>	hTRIG3 rate: <u>376</u> hTRIG6 rate: <u>53</u>	hTRIG4 rate: <u>97</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\alpha$ A	Comments: <u>power current</u>		Events <u>134k</u> Charge <u>19</u> $\mu$ C	Active trigger fraction (NPS Scaler Gui): <u>100</u>	LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): _____ ( $\mu$ A)	

Run Number: <u>5882</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:04</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>700kHz</u> hTRIG5 rate: <u>90</u>	hTRIG3 rate: <u>376</u> hTRIG6 rate: <u>53</u>	hTRIG4 rate: <u>97</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\alpha$ A	Comments: <u>power current</u>		Events <u>134k</u> Charge <u>19</u> $\mu$ C	Active trigger fraction (NPS Scaler Gui): <u>100</u>	LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): _____ ( $\mu$ A)	

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 4, 15  
yy mm dd

Initials: RM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60 - 1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2 X 2 mm

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.83</u> mm		<u>.274</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>.781</u> mm		<u>.332</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: -1.7190  $\theta$ (TV): 39.810  
From GUI Nearest 0.005

$\theta$ (TV): 30.700  
Nearest 0.005

$\theta$  = SHMS 14.40  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5883</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>435k</u>	hTRIG3 rate <u>288</u>	hTRIG4 rate <u>84</u>
I <sub>beam</sub> : <u>10</u> $\alpha$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>62</u>	hTRIG6 rate <u>44</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>141k</u> Charge <u>16 mC</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>~10</u> ( $\mu$ A)		

Run Number: <u>5884</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3 M</u>	hTRIG3 rate <u>516</u>	hTRIG4 rate <u>125</u>
I <sub>beam</sub> : _____ $\alpha$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>173</u>	hTRIG6 rate <u>61</u>	
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>116k</u> Charge <u>18 mC</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>10.5</u> ( $\mu$ A)		

Run Number: <u>5885</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>900k</u>	hTRIG3 rate <u>1000</u>	hTRIG4 rate <u>160</u>
I <sub>beam</sub> : <u>18</u> $\alpha$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>209</u>	hTRIG6 rate <u>05</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>317k</u> Charge <u>28 mC</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>11</u> ( $\mu$ A)		

Run Number: <u>5886</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>12</u> $\alpha$ A	Comments:			<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events _____ Charge _____ C			Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>12</u> ( $\mu$ A)		

# $p(e, e'\gamma) p$ Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 15  
yy mm dd

Initials: RM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

$E_{beam}$ : 6.371 GeV

Raster:  On  Off  
 Size: 2 x 2 mm

Beam position and angle on target:

HMS 1.7190  
 $p: +/- 1.7190$  (TV): 39.810  
From GUI Nearest 0.005

SHMS  $\theta$  (TV): 30.700  
Nearest 0.005

NPS  $\theta =$  SHMS 14.40  
-16.30° Nearest 0.005

3H07A	X	Y
<u>184</u> mm		<u>297</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>758</u> mm		<u>282</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet  $I =$  468 Amp  
 NPS Upstream Corr.  $I =$  0 Amp  
 NPS Upstream Corr.  $I =$  0 Amp

Run Number: <u>5887</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>3:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.0 M</u>	hTRIG3 rate <u>1400</u>	hTRIG4 rate <u>225</u>
$I_{beam}$ : <u>12</u> $\alpha A$	Comments: <u>start LD2 run 1</u>			Events <u>401k</u> Charge <u>21mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.7</u>	Max NPS anode current (single crystal) <u>11</u> ( $\mu A$ )	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>5888</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.0 M</u>	hTRIG3 rate <u>1356</u>	hTRIG4 rate <u>227</u>
$I_{beam}$ : <u>12</u> $\alpha A$	Comments: <u>LD2 run 2</u>			Events <u>452k</u> Charge <u>23mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>10.6</u> ( $\mu A$ )	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>5889</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.0 M</u>	hTRIG3 rate <u>1400</u>	hTRIG4 rate <u>240</u>
$I_{beam}$ : <u>12</u> $\alpha A$	Comments: <u>LD2 run 3</u>			Events <u>380k</u> Charge <u>1mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>11</u> ( $\mu A$ )	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>5890</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>5:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1 M</u>	hTRIG3 rate <u>1379</u>	hTRIG4 rate <u>243</u>
$I_{beam}$ : <u>12</u> $\alpha A$	Comments: <u>LD2 run 4</u>			Events <u>528</u> Charge <u>26mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>11</u> ( $\mu A$ )	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

$\hookrightarrow$  17 min down for "QE measurement" (injector).  
 Therefore we let the run #5890 go a little longer.

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 4, 15  
yy mm dd

Initials: RCM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2 x 2 mm

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.86</u> mm		<u>.274</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>.740</u> mm		<u>.230</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +/- -1.7190  $\theta$ (TV): 39.810  
From GUI Nearest 0.005

$\theta$ (TV): 30.700  
Nearest 0.005

$\theta$  = SHMS 14.40  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5891</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:05</u> Stop time (from RC): <u>6:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.0M</u> hTRIG5 rate: <u>626</u>	hTRIG3 rate: <u>1326</u> hTRIG6 rate: <u>117</u>	hTRIG4 rate: <u>229</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 run 5</u>	Events <u>370k</u> Charge <u>19mC</u>	Active trigger fraction (NPS Scaler Gui): <u>100</u>	LiveTime (single crystal): <u>11</u> ( $\mu$ A)
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Run Number: <u>5892</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:36</u> Stop time (from RC): <u>7:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.0M</u> hTRIG5 rate: <u>636</u>	hTRIG3 rate: <u>1386</u> hTRIG6 rate: <u>131</u>	hTRIG4 rate: <u>229</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 run 6</u>	Events <u>346k</u> Charge <u>7mC</u>	Active trigger fraction (NPS Scaler Gui): <u>100</u>	LiveTime (single crystal): <u>11</u> ( $\mu$ A)
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Run Number: <u>5893</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>7:07</u> Stop time (from RC): <u>7:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.1M</u> hTRIG5 rate: <u>666</u>	hTRIG3 rate: <u>1392</u> hTRIG6 rate: <u>141</u>	hTRIG4 rate: <u>248</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 run 7</u>	Events <u>376k</u> Charge <u>19mC</u>	Active trigger fraction (NPS Scaler Gui): <u>100</u>	LiveTime (single crystal): <u>10.9</u> ( $\mu$ A)
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Run Number: <u>5894</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>7:38</u> Stop time (from RC): <u>08:10</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.1M</u> hTRIG5 rate: <u>640</u>	hTRIG3 rate: <u>1364</u> hTRIG6 rate: <u>125</u>	hTRIG4 rate: <u>229</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 run 8</u>	Events <u>400k</u> Charge <u>C</u>	Active trigger fraction (NPS Scaler Gui): <u>100</u>	LiveTime (single crystal): <u>11</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/15  
yy mm dd

Initials: A. Hoogh

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
1.85 mm		0.27 mm
Nomin:		Nomin:
3H07C	X	Y
0.74 mm		0.29 mm
Nomin:		Nomin:

**HMS**  
p: +0.719 From GUI  $\theta$ (TV): 39.810 Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.70 Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

**Run Number:** 5895  
I<sub>beam</sub>: 12  $\mu$ A

<input type="checkbox"/> LH2 10cm	PS1: -1	Start time (from RC): 08:12	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: 2.07e6	hTRIG3 rate: 1354	hTRIG4 rate: 237.5
<input checked="" type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 08:44	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: 632.3	hTRIG6 rate: 120.5	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: -1		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: 0					
<input type="checkbox"/> C 0.5% r.l.	PS5: -1					
<input type="checkbox"/>	PS6: -1					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: LD2 run 9  
Events 419K  
Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100  
Max NPS anode current (single crystal) 10.9  $\mu$ A

**Run Number:** 5896  
I<sub>beam</sub>: 12  $\mu$ A

<input type="checkbox"/> LH2 10cm	PS1: -1	Start time (from RC): 08:45	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: 2.03e6	hTRIG3 rate: 1393	hTRIG4 rate: 233.4
<input checked="" type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 09:12	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: 614.5	hTRIG6 rate: 125.1	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: -1		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: 0					
<input type="checkbox"/> C 0.5% r.l.	PS5: -1					
<input type="checkbox"/>	PS6: -1					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: LD2 run 10  
Events 359K  
Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100  
Max NPS anode current (single crystal) 11  $\mu$ A

**Run Number:** 5897  
I<sub>beam</sub>: 2.5  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: -1	Start time (from RC): 11:20	<input type="checkbox"/> Settings Verified?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
<input type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 11:21	<input type="checkbox"/> HV OK?	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: -1		<input type="checkbox"/> 50k OK?			<input checked="" type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: 0					
<input type="checkbox"/> C 0.5% r.l.	PS5: -1					
<input type="checkbox"/>	PS6: -1					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: LH2 run 1, No beam for 15 minutes  
Events 2K  
Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui)  
Max NPS anode current (single crystal)

**Run Number:** 5898  
I<sub>beam</sub>: 5  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: -1	Start time (from RC): 11:37	<input type="checkbox"/> Settings Verified?	hTRIG1 rate: 1.43e6	hTRIG3 rate: 3359	hTRIG4 rate: 590
<input type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 12:03	<input type="checkbox"/> HV OK?	hTRIG5 rate: 1066	hTRIG6 rate: 207.2	<input type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: -1		<input type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: 0					
<input type="checkbox"/> C 0.5% r.l.	PS5: -1					
<input type="checkbox"/>	PS6: -1					

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: LH2 run 1  
Events 844K  
Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui)  
Max NPS anode current (single crystal)



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/15  
yy mm dd

Initials: A. Hoagh

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-1**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 6.379 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +0.1734  $\theta$ (TV): 39.81  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.7  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.4  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.82</u> mm		<u>0.38</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.44</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 144 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5899</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>13:21</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\alpha$ A	Comments: <u>Junk</u>		Stop time (from RC): <u>13:29</u>	Events _____ Charge <u>C</u>	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)		Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: <u>5900</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input checked="" type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.85e5</u>	hTRIG3 rate <u>754.7</u>	hTRIG4 rate <u>86.4</u>
I <sub>beam</sub> : <u>10</u> $\alpha$ A	Comments: <u>50 min C 0.5%</u>		Stop time (from RC): <u>14:22</u>	Events <u>226k</u> Charge <u>C</u>	hTRIG5 rate <u>119</u>	hTRIG6 rate <u>11.5</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>		Max NPS anode current (single crystal) ( $\mu$ A) <u>11</u>				

Run Number: <u>5902</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input checked="" type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.99e5</u>	hTRIG3 rate <u>370</u>	hTRIG4 rate <u>42</u>
I <sub>beam</sub> : <u>10</u> $\alpha$ A	Comments: <u>50 min C Optics-2</u>		Stop time (from RC): <u>15:32</u>	Events <u>140k</u> Charge <u>C</u>	hTRIG5 rate <u>43</u>	hTRIG6 rate <u>-</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)		Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: <u>5902</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input checked="" type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3,014105</u>	hTRIG3 rate <u>394</u>	hTRIG4 rate <u>35</u>
I <sub>beam</sub> : <u>10</u> $\alpha$ A	Comments:		Stop time (from RC): <u>16:41</u>	Events <u>133k</u> Charge <u>C</u>	hTRIG5 rate <u>39</u>	hTRIG6 rate <u>3.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> n <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>		Max NPS anode current (single crystal) ( $\mu$ A) <u>2,95</u>				

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 23/04/15  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25-1

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6372 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

HMS  
 p: +θ 1.735 θ(TV): 25.12  
From GUI Nearest 0.005

SHMS  
 θ(TV): 25.61  
Nearest 0.005

NPS  
 θ = SHMS 9.31  
-16.30°  
Nearest 0.005

3H07A	X	Y
<u>1,833</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.25</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 16.8 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5903</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:50</u> Stop time (from RC): <u>17:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.17x10<sup>6</sup></u> hTRIG5 rate: <u>2587</u>	hTRIG3 rate: <u>9957</u> hTRIG6 rate: <u>477</u>	hTRIG4 rate: <u>828</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>7.5</u> αA	Comments: <u>glad to reduce beam current to 7.5A THE NOOSE CURRENT WAS 11.5A</u>			Events: <u>6384</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>11</u> (μA)		

Run Number: <u>5904</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:05</u> Stop time (from RC): <u>17:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.05x10<sup>6</sup></u> hTRIG5 rate: <u>2235</u>	hTRIG3 rate: <u>4849</u> hTRIG6 rate: <u>402</u>	hTRIG4 rate: <u>800</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>7.0</u> αA	Comments:			Events: <u>1444</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.9</u> (μA)		

Run Number: <u>5905</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:37</u> Stop time (from RC): <u>18:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.93x10<sup>6</sup></u> hTRIG5 rate: <u>2157</u>	hTRIG3 rate: <u>3000</u> <sup>4310</sup> hTRIG6 rate: <u>416</u>	hTRIG4 rate: <u>845</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>7</u> αA	Comments:			Events: <u>1344</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.73</u> (μA)		

Run Number: <u>5906</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:09</u> Stop time (from RC): <u>18:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.99x10<sup>6</sup></u> hTRIG5 rate: <u>2146</u>	hTRIG3 rate: <u>4758</u> hTRIG6 rate: <u>408</u>	hTRIG4 rate: <u>813</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>7</u> αA	Comments:			Events: <u>1444</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>10.00</u> (μA)		

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 08, 15  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_25-1**

E<sub>beam</sub>: 6372 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1,84</u> mm		<u>0,311</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0,79</u> mm		<u>0,33</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0,1734  $\theta$ (TV): 25.12  
From GUI Nearest 0.005

$\theta$ (TV): 25.61  
Nearest 0.005

$\theta$  = SHMS 9.31  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 467.5 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number:

5907

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

18:42

Stop time (from RC):

19:12

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1,8x10<sup>6</sup>

hTRIG3 rate

4712

hTRIG4 rate

757

hTRIG5 rate

2056

hTRIG6 rate

370

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1,41M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.98%

Max NPS anode current (single crystal) 10,4 ( $\mu$ A)

Run Number:

5908

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

19:13

Stop time (from RC):

19:44

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1,9x10<sup>6</sup>

hTRIG3 rate

4747

hTRIG4 rate

805

hTRIG5 rate

2498

hTRIG6 rate

413

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1,2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99,976%

Max NPS anode current (single crystal) 9.89 ( $\mu$ A)

Run Number:

5909

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

19:45

Stop time (from RC):

20:17

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2,02x10<sup>6</sup>

hTRIG3 rate

4865

hTRIG4 rate

850

hTRIG5 rate

2335

hTRIG6 rate

433

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1,07M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

Run Number:

5910

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

20:18

Stop time (from RC):

20:35

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1,97x10<sup>6</sup>

hTRIG3 rate

4813

hTRIG4 rate

857

hTRIG5 rate

2222

hTRIG6 rate

399

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: ~10min with Bean  
HISTORICAL!!!

Events 200k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 09/15  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 25-1**

E<sub>beam</sub>: 6322 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>183</u> mm		<u>928</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0,74</u> mm		<u>0,337</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.1737  $\theta$ (TV): 25.12  
From GUI Nearest 0.005

$\theta$ (TV): 25.61  
Nearest 0.005

$\theta$  = SHMS 9.31  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 76.9 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5911

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 20:53

Stop time (from RC): 22:13

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk ?

coin\_sparse   
coin   
coin\_sparse\_low

Comments: due to STORM THE Beam was unstable, therefore data is most probably not usable

Events \_\_\_\_\_ Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 5912

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 22:14

Stop time (from RC): 22:45

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate <u>1,92x10<sup>6</sup></u>	hTRIG3 rate <u>4776</u>	hTRIG4 rate <u>822</u>
hTRIG5 rate <u>2186</u>	hTRIG6 rate <u>386</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1,134 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A) 10.17

Run Number: 5913

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 22:46

Stop time (from RC): 23:16

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate <u>1,87x10<sup>6</sup></u>	hTRIG3 rate <u>4760</u>	hTRIG4 rate <u>827</u>
hTRIG5 rate <u>2202</u>	hTRIG6 rate <u>409</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1184 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A) 9.34

Run Number: 5914

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 23:19

Stop time (from RC): 23:39

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate <u>1,23x10<sup>6</sup></u>	hTRIG3 rate <u>3474</u>	hTRIG4 rate <u>597</u>
hTRIG5 rate <u>966</u>	hTRIG6 rate <u>187</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 6,54 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 99.943% Max NPS anode current (single crystal) ( $\mu$ A) 6,8

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/11/18  
yy mm dd

Initials: TS

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25.1

E<sub>beam</sub>: 6372 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

HMS  
p: +16 6734  $\theta$ (TV): 25.12  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 25.61  
Nearest 0.005

NPS  
 $\theta$  = SHMS 9.31  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 46.5 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5915</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>1</u>	Start time (from RC): <u>23:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2x10<sup>6</sup></u>	hTRIG3 rate <u>4716</u>	hTRIG4 rate <u>796</u>
I <sub>beam</sub> : <u>7</u> $\alpha$ A	Comments:			<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2213</u>	hTRIG6 rate <u>383</u>	
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>570K</u> Charge <u>C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>98.145%</u>	Max NPS anode current (single crystal) <u>9.9</u> ( $\mu$ A)		

Run Number: <u>5916</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>1</u>	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.92e6</u>	hTRIG3 rate <u>4758</u>	hTRIG4 rate <u>807</u>
I <sub>beam</sub> : <u>7</u> $\alpha$ A	Comments:			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate <u>2109</u>	hTRIG6 rate <u>395</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	data rate was <u>~400 mb</u>			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.97</u> ( $\mu$ A)	

Run Number: <u>5917</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>2</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.92e6</u>	hTRIG3 rate <u>4758</u>	hTRIG4 rate <u>807</u>
I <sub>beam</sub> : <u>7</u> $\alpha$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2109</u>	hTRIG6 rate <u>595</u>	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>1.26M</u> Charge <u>5.39m C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.97</u> ( $\mu$ A)		

Run Number: <u>5918</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>1</u>	Start time (from RC): <u>00:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.95e6</u>	hTRIG3 rate <u>471</u>	hTRIG4 rate <u>781</u>
I <sub>beam</sub> : <u>7</u> $\alpha$ A	Comments:			<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2127</u>	hTRIG6 rate <u>369</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	1 / 2			Events <u>1.53M</u> Charge <u>6.67 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.847%</u>	Max NPS anode current (single crystal) <u>22.81</u> ( $\mu$ A)	

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 4 / 16  
yy mm dd

Initials: J. Song

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 25-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0.1734 From GUI  $\theta$ (TV): 25-12 Nearest 0.005

**SHMS**  
 $\theta$ (TV): 25-6 Nearest 0.005

**NPS**  
 $\theta$  = SHMS 9.31  
 -16.30° Nearest 0.005

3H07A	X	Y
1.84 mm		0.3 mm
Nomin:		Nomin:
3H07C	X	Y
0.75 mm		0.3 mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 467.9 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: 5919  
 I<sub>beam</sub>: 7  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: 4  
 PS2: 1  
 PS3: 1  
 PS4: 0  
 PS5: 7  
 PS6: 1

Start time (from RC): 1:09  
 Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.06e6  
 hTRIG5 rate: 2123

hTRIG3 rate: 6264  
 hTRIG6 rate: 359

hTRIG4 rate: 1014  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 2/2

Events: 9306  
 Charge: C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.85%

Max NPS anode current (single crystal): 22.27  $\mu$ A

Run Number: 5920  
 I<sub>beam</sub>: 5  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: \_\_\_\_\_  
 PS2: \_\_\_\_\_  
 PS3: \_\_\_\_\_  
 PS4: \_\_\_\_\_  
 PS5: \_\_\_\_\_  
 PS6: \_\_\_\_\_

Start time (from RC):  
 Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
 hTRIG5 rate

hTRIG3 rate  
 hTRIG6 rate

hTRIG4 rate  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events  
 Charge: C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  $\mu$ A

Run Number: 5922  
 I<sub>beam</sub>: 4  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: 4  
 PS2: 1  
 PS3: 1  
 PS4: 0  
 PS5: 7  
 PS6: 1

Start time (from RC): 1:35  
 Stop time (from RC): 1:50

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
 hTRIG5 rate

hTRIG3 rate  
 hTRIG6 rate

hTRIG4 rate  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events: 433k  
 Charge: C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  $\mu$ A

Run Number: 5923  
 I<sub>beam</sub>: 5  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: 4  
 PS2: 1  
 PS3: 1  
 PS4: 0  
 PS5: 7  
 PS6: 1

Start time (from RC): 1:54  
 Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 253e6  
 hTRIG5 rate: 9257

hTRIG3 rate: 4161  
 hTRIG6 rate: 1324

hTRIG4 rate: 2159  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events  
 Charge: C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.07%

Max NPS anode current (single crystal): 12.93  $\mu$ A

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 9, 16  
yy mm dd

Initials: T. Song

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 25-1**

E<sub>beam</sub>: 6.37<sup>2</sup> GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.5</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.25</u> mm		<u>0.5</u> mm
Nomin:		Nomin:

HMS  
p: +1.734  $\theta$ (TV): 25.12  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 25.61  
Nearest 0.005

NPS  
 $\theta$  = SHMS 9.51  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 40 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>5924</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>2:04</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>4.5</u> $\alpha$ A	Comments:		Stop time (from RC): <u>2:07</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events _____ Charge _____ C		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)			

Run Number: <u>5924</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>2:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.29e6</u>	hTRIG3 rate <u>1.0547</u>	hTRIG4 rate <u>1.578</u>
I <sub>beam</sub> : <u>4</u> $\alpha$ A	Comments: <u>1/8</u>		Stop time (from RC): <u>2:40</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>5674</u>	hTRIG6 rate <u>893</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>2.27</u> Charge <u>5.07</u> C		Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.34%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>9.47</u>			

Run Number: <u>5926</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>2:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.28e6</u>	hTRIG3 rate <u>1.0640</u>	hTRIG4 rate <u>1.570</u>
I <sub>beam</sub> : <u>4</u> $\alpha$ A	Comments: <u>2/8</u>		Stop time (from RC): <u>3:12</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>5687</u>	hTRIG6 rate <u>877</u>	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>2.87</u> Charge <u>6.15</u> C		Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.50%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>9.47</u>			

Run Number: <u>5927</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>3:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.34e6</u>	hTRIG3 rate <u>1.0894</u>	hTRIG4 rate <u>1.623</u>
I <sub>beam</sub> : <u>4</u> $\alpha$ A	Comments: <u>3/A</u>		Stop time (from RC): <u>3:45</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>6050</u>	hTRIG6 rate <u>950</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>2.75</u> Charge <u>5.70</u> C		Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.78%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>9.47</u>			

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 09 / 16  
 yy mm dd

Initials: TSong

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 25-1

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

**HMS, field, current OK?**  
 yes  no

**E<sub>beam</sub>:** 6.37 GeV

**Raster:**  On  Off  
**Size:** 4x2

**Beam position and angle on target:**

**HMS**  
**p:** +1.734 From GUI **θ(TV):** 25-12 Nearest 0.005

**SHMS**  
**θ(TV):** 25-6 Nearest 0.005

**NPS**  
**θ = SHMS** 9.31  
**-16.30°** Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>6.75</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet 1 = 4.8 Amp NPS Upstream Corr. 1 = 0 Amp NPS Upstream Corr. 1 = 0 Amp

<b>Run Number:</b> <u>5928</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	<b>Start time (from RC):</b> <u>5:27</u> <u>3:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>233e6</u>	<b>hTRIG3 rate</b> <u>1093</u>	<b>hTRIG4 rate</b> <u>1538</u>
<b>I<sub>beam</sub>:</b> <u>4</u> αA	<b>Stop time (from RC):</b>			<b>hTRIG5 rate</b> <u>6071</u>	<b>hTRIG6 rate</b> <u>960</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	
<input checked="" type="checkbox"/> coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low	<b>Comments:</b> <u>4/8</u>			<b>Events</b> <u>2.20M</u> <b>Charge</b> <u>6.87M C</u>	<b>Active trigger fraction (NPS Scaler Gui)</b> <u>99.77</u>	<b>LiveTime</b> <b>Max NPS anode current (single crystal)</b> <u>9.37</u> (μA)	

<b>Run Number:</b> <u>5929</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	<b>Start time (from RC):</b> <u>4:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>234e6</u>	<b>hTRIG3 rate</b> <u>10641</u>	<b>hTRIG4 rate</b> <u>1549</u>
<b>I<sub>beam</sub>:</b> <u>4</u> αA	<b>Stop time (from RC):</b> <u>4:52</u>			<b>hTRIG5 rate</b> <u>6087</u>	<b>hTRIG6 rate</b> <u>916</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	
<input checked="" type="checkbox"/> coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low	<b>Comments:</b> <u>5/8</u>			<b>Events</b> <u>2.8M</u> <b>Charge</b> <u>7.87M C</u>	<b>Active trigger fraction (NPS Scaler Gui)</b> <u>99.87</u>	<b>LiveTime</b> <b>Max NPS anode current (single crystal)</b> <u>9.88</u> (μA)	

<b>Run Number:</b> <u>5930</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	<b>Start time (from RC):</b> <u>4:53</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>236e6</u>	<b>hTRIG3 rate</b> <u>10938</u>	<b>hTRIG4 rate</b> <u>16A</u>
<b>I<sub>beam</sub>:</b> <u>4</u> αA	<b>Stop time (from RC):</b> <u>5:25</u>			<b>hTRIG5 rate</b> <u>6107</u>	<b>hTRIG6 rate</b> <u>952</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	
<input checked="" type="checkbox"/> coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low	<b>Comments:</b> <u>6/8</u>			<b>Events</b> <u>2.24M</u> <b>Charge</b> <u>7.24M C</u>	<b>Active trigger fraction (NPS Scaler Gui)</b> <u>95.66</u>	<b>LiveTime</b> <b>Max NPS anode current (single crystal)</b> <u>10.02</u> (μA)	

<b>Run Number:</b> <u>5931</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	<b>Start time (from RC):</b> <u>5:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b>	<b>hTRIG3 rate</b>	<b>hTRIG4 rate</b>
<b>I<sub>beam</sub>:</b> <u>4</u> αA	<b>Stop time (from RC):</b> <u>6:13</u>			<b>hTRIG5 rate</b>	<b>hTRIG6 rate</b>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	
<input checked="" type="checkbox"/> coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low	<b>Comments:</b> <u>7/8</u>			<b>Events</b> <u>2.81M</u> <b>Charge</b> <u>7.34M C</u>	<b>Active trigger fraction (NPS Scaler Gui)</b>	<b>LiveTime</b> <b>Max NPS anode current (single crystal)</b> (μA)	



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 16  
 yy mm dd

Initials: F. Song

Use a separate sheet for each configuration.

**Kinematics: KinC\_x25-1**

- Purpose:**
- Production
  - Test
  - Optics
  - Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.372 GeV

Raster:  On  Off  
 Size: 2h

Beam position and angle on target:

**HMS**  
 p: -0.734 From GUI  $\theta$ (TV): 25.12 Nearest 0.005

**SHMS**  
 $\theta$ (TV): 25.6 Nearest 0.005

**NPS**  
 $\theta$  = SHMS 9.57  
 -16.30° Nearest 0.005

3H07A <u>5</u> X	<u>0.5</u> Y
mm	mm
Nomin:	Nomin:
3H07C X	Y
<u>0.75</u> mm	<u>0.3</u> mm
Nomin:	Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 4.8 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>5932</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>6:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>23706</u>	hTRIG3 rate: <u>11072</u>	hTRIG4 rate: <u>162</u>
I <sub>beam</sub> : <u>4</u> $\alpha$ A	<input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l		Stop time (from RC): <u>6:51</u>		hTRIG5 rate: <u>6359</u>	hTRIG6 rate: <u>980</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8/8</u>	Events <u>2474</u> Charge <u>72M</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.727</u>	Max NPS anode current (single crystal) <u>9.39</u> ( $\mu$ A)
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Run Number: <u>5933</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>6:53</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>16106</u>	hTRIG3 rate: <u>7157</u>	hTRIG4 rate: <u>1073</u>
I <sub>beam</sub> : <u>2.8</u> $\alpha$ A	<input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l		Stop time (from RC): <u>7:19</u>		hTRIG5 rate: <u>2660</u>	hTRIG6 rate: <u>424</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>424</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.154</u>	Max NPS anode current (single crystal) <u>6.07</u> ( $\mu$ A)
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Run Number: <u>5934</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>2</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>7:0</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>2.8</u> $\alpha$ A	<input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l		Stop time (from RC): <u>7:11</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>424</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: <u>5935</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>7:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>23306</u>	hTRIG3 rate: <u>1078</u>	hTRIG4 rate: <u>1605</u>
I <sub>beam</sub> : <u>0</u> $\alpha$ A	<input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l		Stop time (from RC):		hTRIG5 rate: <u>609</u>	hTRIG6 rate: <u>928</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>111</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>9.76</u> ( $\mu$ A)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 04 16  
yy mm dd

Initials: T-Sung

Use a separate sheet for each configuration.

**Kinematics: KinC\_x25**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0 1.734 (TV): 25.2  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 25.6  
Nearest 0.005

**NPS**  
 θ = SHMS 9.51  
 -16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.27</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 450 Amp NPS Upstream Corr. I = 2 Amp NPS Upstream Corr. I = 8 Amp

Run Number: 5938  
 I<sub>beam</sub>: 7 αA  
 LH2 10cm PS1: -1 Start time (from RC): 8:01 Settings Verified?  hTRIG1 rate: 1.0986 hTRIG3 rate: 4630 hTRIG4 rate: 803  
 LD2 10cm PS2: -1 Stop time (from RC): 08:34 HV OK?  hTRIG5 rate: 2.92 hTRIG6 rate: 3.68 Data ok   
 Dummy 10cm PS3: -1 50k OK?  Junk   
 Optics#1 8cm PS4: 0  
 C 0.5% r.l. PS5: -1  
 PS6: -1

coin\_sparse  Comments: 1st LH2 Events 1.3 M Active trigger LiveTime fraction (NPS Scaler Gui) 99.98% Max NPS anode current (single crystal) 9.6 (μA)  
 coin  Charge 7.35 C  
 coin\_sparse\_low

Run Number: 5939  
 I<sub>beam</sub>: 7 αA  
 LH2 10cm PS1: -1 Start time (from RC): 08:36 Settings Verified?  hTRIG1 rate: - hTRIG3 rate: - hTRIG4 rate: -  
 LD2 10cm PS2: -1 Stop time (from RC): 09:04 HV OK?  hTRIG5 rate: - hTRIG6 rate: - Data ok   
 Dummy 10cm PS3: -1 50k OK?  Junk   
 Optics#1 8cm PS4: 0  
 C 0.5% r.l. PS5: -1  
 PS6: -1

coin\_sparse  Comments: 2nd 2H2 Events 1.2 M Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) - (μA)  
 coin  Charge 7.35 C  
 coin\_sparse\_low

Run Number: 5940  
 I<sub>beam</sub>: 5.9 αA  
 LH2 10cm PS1: \_\_\_\_\_ Start time (from RC): \_\_\_\_\_ Settings Verified?  hTRIG1 rate: \_\_\_\_\_ hTRIG3 rate: \_\_\_\_\_ hTRIG4 rate: \_\_\_\_\_  
 LD2 10cm PS2: \_\_\_\_\_ Stop time (from RC): \_\_\_\_\_ HV OK?  hTRIG5 rate: \_\_\_\_\_ hTRIG6 rate: \_\_\_\_\_ Data ok   
 Dummy 10cm PS3: \_\_\_\_\_ 50k OK?  Junk   
 Optics#1 8cm PS4: \_\_\_\_\_  
 C 0.5% r.l. PS5: \_\_\_\_\_  
 PS6: \_\_\_\_\_

coin\_sparse  Comments: Crash Position Events \_\_\_\_\_ Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) \_\_\_\_\_ (μA)  
 coin  Charge \_\_\_\_\_  
 coin\_sparse\_low

Run Number: \_\_\_\_\_  
 I<sub>beam</sub>: \_\_\_\_\_ αA  
 LH2 10cm PS1: \_\_\_\_\_ Start time (from RC): \_\_\_\_\_ Settings Verified?  hTRIG1 rate: \_\_\_\_\_ hTRIG3 rate: \_\_\_\_\_ hTRIG4 rate: \_\_\_\_\_  
 LD2 10cm PS2: \_\_\_\_\_ Stop time (from RC): \_\_\_\_\_ HV OK?  hTRIG5 rate: \_\_\_\_\_ hTRIG6 rate: \_\_\_\_\_ Data ok   
 Dummy 10cm PS3: \_\_\_\_\_ 50k OK?  Junk   
 Optics#1 8cm PS4: \_\_\_\_\_  
 C 0.5% r.l. PS5: \_\_\_\_\_  
 PS6: \_\_\_\_\_

coin\_sparse  Comments: \_\_\_\_\_ Events \_\_\_\_\_ Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) \_\_\_\_\_ (μA)  
 coin  Charge \_\_\_\_\_  
 coin\_sparse\_low

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 17  
yy mm dd

Initials: SCD / SW

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25\_1

Purpose:

- Production
- Test
- Optics
- Other: Positrons

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.971 GeV

Raster:  On  Off

Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

25.13

SHMS

NPS

$\theta$  (TV): 1.734  
From GUI Nearest 0.005

$\theta$  (TV): 25.62  
Nearest 0.005

$\theta$  = SHMS .32  
-16.30° Nearest 0.005

Collimator:

HMS: Large Sieve

NPS Sweep Magnet 468 Amp

NPS Upstream Corr.      Amp

NPS Upstream Corr.      Amp

Run Number:

5941

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

13:12

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2x10<sup>6</sup>

hTRIG3 rate

23x10<sup>3</sup>

hTRIG4 rate

1000

I<sub>beam</sub>: 7  $\alpha$ A

Stop time (from RC):

13:47

hTRIG5 rate

11x10<sup>3</sup>

hTRIG6 rate

540

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1<sup>st</sup>

Events 1.86M  
Charge 12.4C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 10 ( $\mu$ A)

Run Number:

5942

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

13:48

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2x10<sup>6</sup>

hTRIG3 rate

22.7x10<sup>3</sup>

hTRIG4 rate

990

I<sub>beam</sub>: 7  $\alpha$ A

Stop time (from RC):

14:22

hTRIG5 rate

10800

hTRIG6 rate

505

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 2<sup>nd</sup>

Events 1.33M  
Charge 7.92C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 10 ( $\mu$ A)

Run Number:

5943

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

14:23

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2e6

hTRIG3 rate

22.7e3

hTRIG4 rate

1006

I<sub>beam</sub>: 7  $\alpha$ A

Stop time (from RC):

14:54

hTRIG5 rate

10.2e3

hTRIG6 rate

499

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 3<sup>rd</sup>

Events 1.61M  
Charge 11.1<sup>MC</sup>

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 10.47 ( $\mu$ A)

Run Number:

5944

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

14:58

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.06e6

hTRIG3 rate

22863

hTRIG4 rate

1002

I<sub>beam</sub>: 7  $\alpha$ A

Stop time (from RC):

15:37

hTRIG5 rate

10556

hTRIG6 rate

528

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4<sup>th</sup>

Events 1.7M  
Charge 11.48<sup>MC</sup>

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 6.25 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/17  
yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 25.1

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field,  
current OK?  
 yes  no

E<sub>beam</sub>: 6.77 GeV

Raster:  On  Off  
 Size: 2x2 μm<sup>2</sup>

Beam position and angle on target:

**HMS**  
 p: 1779 θ(TV): 25.13  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 75.62  
Nearest 0.005

**NPS**  
 θ = SHMS 9.32  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.8</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.76</u> mm		<u>0.38</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5945  
 I<sub>beam</sub>: 4 αA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>15:46</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.0e6</u>	hTRIG3 rate: <u>14186</u>	hTRIG4 rate: <u>571</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>16:17</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>5977</u>	hTRIG6 rate: <u>256</u>	<input checked="" type="checkbox"/> Data ok
<input checked="" type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

Comments: \_\_\_\_\_

coin\_sparse  coin  coin\_sparse\_low

Events 963K Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 13.7 (μA)  
 Charge C

Run Number: 5946  
 I<sub>beam</sub>: 4 αA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>16:30</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.38x10<sup>6</sup></u>	hTRIG3 rate: <u>37285</u>	hTRIG4 rate: <u>1632</u>
<input checked="" type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>17:02</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>21207</u>	hTRIG6 rate: <u>950</u>	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

Comments: \_\_\_\_\_

coin\_sparse  coin  coin\_sparse\_low

Events 27M Active trigger LiveTime fraction (NPS Scaler Gui) 93.410% Max NPS anode current (single crystal) 9.82 (μA)  
 Charge C

Run Number: 5947  
 I<sub>beam</sub>: 4 αA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>17:10</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.37x10<sup>6</sup></u>	hTRIG3 rate: <u>37022</u>	hTRIG4 rate: <u>1638</u>
<input checked="" type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>17:48</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>21210</u>	hTRIG6 rate: <u>940</u>	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

Comments: \_\_\_\_\_

coin\_sparse  coin  coin\_sparse\_low

Events 269M Active trigger LiveTime fraction (NPS Scaler Gui) 99.766% Max NPS anode current (single crystal) 9.30 (μA)  
 Charge C

Run Number: 5948  
 I<sub>beam</sub>: 4 αA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>17:50</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.4x10<sup>6</sup></u>	hTRIG3 rate: <u>37411</u>	hTRIG4 rate: <u>1622</u>
<input checked="" type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>18:20</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>20983</u>	hTRIG6 rate: <u>934</u>	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

Comments: \_\_\_\_\_

coin\_sparse  coin  coin\_sparse\_low

Events 2.7M Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 9.73 (μA)  
 Charge C

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/17  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 25-1**

E<sub>beam</sub>: 6370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: 1.734 From GUI θ(TV): 25.12 Nearest 0.005

**SHMS**  
θ(TV): 25.61 Nearest 0.005

**NPS**  
θ = SHMS 9.31  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.83</u> mm		<u>0.339</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.77</u> mm		<u>0.305</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 4.5 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>5949</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:21</u> Stop time (from RC): <u>18:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.36x10<sup>6</sup></u> hTRIG5 rate: <u>20977</u>	hTRIG3 rate: <u>37392</u> hTRIG6 rate: <u>932</u>	hTRIG4 rate: <u>1614</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>4</u> αA	Comments:			Events <u>2784</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.70%</u>	Max NPS anode current (single crystal): <u>9.23</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>5950</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:53</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>4</u> αA	Comments: <u>Just after starting run, MCC informed there will be no beam for a while</u>			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>5951</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:05</u> Stop time (from RC): <u>19:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.37x10<sup>6</sup></u> hTRIG5 rate: <u>21230</u>	hTRIG3 rate: <u>37686</u> hTRIG6 rate: <u>939</u>	hTRIG4 rate: <u>1649</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>4</u> αA	Comments:			Events <u>2584</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) (μA): <u>9.47</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>5952</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:37</u> Stop time (from RC): <u>20:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.39x10<sup>6</sup></u> hTRIG5 rate: <u>21747</u>	hTRIG3 rate: <u>37913</u> hTRIG6 rate: <u>884</u>	hTRIG4 rate: <u>1699</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>4</u> αA	Comments:			Events <u>254</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA): <u>9.51</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 21, 04, 12  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 25-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6374 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0 1734  $\theta$ (TV): 25.12  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 25.61  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 9.31  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.84</u> mm		<u>0.305</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.315</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet 1 = 26.9 Amp NPS Upstream Corr. 1 = \_\_\_\_\_ Amp NPS Upstream Corr. 1 = \_\_\_\_\_ Amp

Run Number: 5953  
 I<sub>beam</sub>: 4  $\mu$ A

<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:09</u> Stop time (from RC): <u>20:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.37x10<sup>6</sup></u> hTRIG5 rate: <u>21775</u>	hTRIG3 rate: <u>37629</u> hTRIG6 rate: <u>956</u>	hTRIG4 rate: <u>1705</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
---	---	---	--	--	--	--------------------------	---

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: THIS RUN IS A POSITRON RUN

Events 2.5M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) \_\_\_\_\_  $\mu$ A

Run Number: 5954  
 I<sub>beam</sub>: 4  $\mu$ A

<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:35</u> Stop time (from RC): <u>23:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.41x10<sup>6</sup></u> hTRIG5 rate: <u>6410</u>	hTRIG3 rate: <u>11054</u> hTRIG6 rate: <u>992</u>	hTRIG4 rate: <u>1656</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---	---	---	---	---	--	--------------------------	--

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 1/9

Events 2.7M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 99.689% Max NPS anode current (single crystal) 9.11  $\mu$ A

Run Number: 5955  
 I<sub>beam</sub>: 4  $\mu$ A

<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:09</u> Stop time (from RC): <u>23:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.4x10<sup>6</sup></u> hTRIG5 rate: <u>6400</u>	hTRIG3 rate: <u>10996</u> hTRIG6 rate: <u>972</u>	hTRIG4 rate: <u>1659</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---	---	---	---	--	--	--------------------------	--

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 2/9

Events 2.7M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 9.46  $\mu$ A

Run Number: 5956  
 I<sub>beam</sub>: 4  $\mu$ A

<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:40</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.38x10<sup>6</sup></u> hTRIG5 rate: <u>6362</u>	hTRIG3 rate: <u>10942</u> hTRIG6 rate: <u>977</u>	hTRIG4 rate: <u>1651</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---	---	--	---	---	--	--------------------------	--

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 3/9

Events 3.0M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 99.632 Max NPS anode current (single crystal) 9.43  $\mu$ A



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 09 18  
yx mm dd

Initials: TS

Use a separate sheet for each configuration.

Kinematics: KinC x 25-1

- Purpose:
- Production
  - Test
  - Optics
  - Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

HMS  
 p: 1.734 From GUI  
 $\theta$ (TV): 25.12 Nearest 0.005

SHMS  
 $\theta$ (TV): 25.6 Nearest 0.005

NPS  
 $\theta$  = SHMS -16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 4.3 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5957	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 1 PS2: 7 PS3: 7 PS4: 1 PS5: 1 PS6: 1	Start time (from RC): 00:12 Stop time (from RC): 00:49	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 0 hTRIG3 rate: hTRIG4 rate: hTRIG5 rate: hTRIG6 rate: Data ok <input checked="" type="checkbox"/> Junk <input type="checkbox"/>
I <sub>beam</sub> : 4 $\mu$ A	Comments: 4/7			Events: 2.7 Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 60 Max NPS anode current (single crystal) ( $\mu$ A):

Run Number: 5958	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 1 PS2: 7 PS3: 7 PS4: 0 PS5: 1 PS6: 7	Start time (from RC): 00:51 Stop time (from RC): 01:23	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.35e6 hTRIG3 rate: 1022 hTRIG4 rate: 60 hTRIG5 rate: 6091 hTRIG6 rate: 94 Data ok <input type="checkbox"/> Junk <input type="checkbox"/>
I <sub>beam</sub> : 4 $\mu$ A	Comments: 5/7			Events: 2.7 Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 97.72 Max NPS anode current (single crystal) ( $\mu$ A): 8.7

Run Number: 5959	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 1 PS2: 7 PS3: 7 PS4: 7 PS5: 1 PS6: 1	Start time (from RC): 1:24 Stop time (from RC): 1:55	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.35e6 hTRIG3 rate: 1089 hTRIG4 rate: 1611 hTRIG5 rate: 5987 hTRIG6 rate: 910 Data ok <input type="checkbox"/> Junk <input type="checkbox"/>
I <sub>beam</sub> : 4 $\mu$ A	Comments: 6/9			Events: 2.7 Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 97.804 Max NPS anode current (single crystal) ( $\mu$ A): 8.8

Run Number: 5960	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 7 PS2: 7 PS3: 7 PS4: 0 PS5: 7 PS6: 7	Start time (from RC): 1:56 Stop time (from RC): 2:26	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.34e6 hTRIG3 rate: 1078 hTRIG4 rate: 1615 hTRIG5 rate: 5959 hTRIG6 rate: 942 Data ok <input checked="" type="checkbox"/> Junk <input type="checkbox"/>
I <sub>beam</sub> : 4 $\mu$ A	Comments: 7/9			Events: 2.7 Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 97.274 Max NPS anode current (single crystal) ( $\mu$ A): 9.12

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Use a separate sheet for each configuration.

Date: 2/04/18  
yy mm dd

Initials: F-Song

**Kinematics: KinC\_x 25-1**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x

Beam position and angle on target:

HMS 1.734  
p: 4 From GUI  $\theta$ (TV): 25.42 Nearest 0.005

SHMS  $\theta$ (TV): 25.1 Nearest 0.005

NPS  $\theta =$  SHMS 9.31  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm	<u>0.29</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.725</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 4.6 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>599</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>2:24</u> Stop time (from RC): <u>3:09</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.326</u> hTRIG5 rate: <u>5956</u>	hTRIG3 rate: <u>10664</u> hTRIG6 rate: <u>920</u>	hTRIG4 rate: <u>1618</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>4</u> $\alpha$ A	Comments: <u>8/9</u>			Events: <u>30M</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.79%</u>	Max NPS anode current (single crystal): <u>9.26</u> ( $\mu$ A)	

Run Number: <u>598</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>3:10</u> Stop time (from RC): <u>3:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.326</u> hTRIG5 rate: <u>6220</u>	hTRIG3 rate: <u>1.687</u> hTRIG6 rate: <u>936</u>	hTRIG4 rate: <u>1616</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>4</u> $\alpha$ A	Comments: <u>9/9</u>			Events: <u>27M</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.85%</u>	Max NPS anode current (single crystal): <u>6.02</u> ( $\mu$ A)	

Run Number: <u>595</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>3:46</u> Stop time (from RC): <u>4:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.1826</u> hTRIG5 rate: <u>950</u>	hTRIG3 rate: <u>3728</u> hTRIG6 rate: <u>64</u>	hTRIG4 rate: <u>598</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>5</u> $\alpha$ A	Comments: _____			Events: <u>57M</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.97%</u>	Max NPS anode current (single crystal): <u>6.44</u> ( $\mu$ A)	

Run Number: <u>5964</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>4:14</u> Stop time (from RC): <u>4:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.0026</u> hTRIG5 rate: <u>2252</u>	hTRIG3 rate: <u>4266</u> hTRIG6 rate: <u>300</u>	hTRIG4 rate: <u>650</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>2</u> $\alpha$ A	Comments: _____			Events: <u>170K</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal): <u>7.4</u> ( $\mu$ A)	



# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/18  
yy mm dd

Initials: T. Sang

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25.1

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS  
p: # 1.734  $\theta$ (TV): 25.12  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 25.6  
Nearest 0.005

NPS  
 $\theta$  = SHMS 9.31  
-16.30° Nearest 0.005

3H07A	X	Y
1.85 mm	0.3 mm	
Nomin:		Nomin:
3H07C	X	Y
0.255 mm	0.3 mm	
Nomin:		Nomin:

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 46.8 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5965  
I<sub>beam</sub>: 4  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.

PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1

Start time (from RC): 4:41 Stop time (from RC): 5:11

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1986 hTRIG3 rate: 3422 hTRIG4 rate: 58  
hTRIG5 rate: 1500 hTRIG6 rate: 265

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: Events 989k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 1.00 Max NPS anode current (single crystal) 12.4  $\mu$ A

Run Number: 5966  
I<sub>beam</sub>: 4  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.

PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1

Start time (from RC): 5:12 Stop time (from RC): 5:24

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1356 hTRIG3 rate: 355 hTRIG4 rate: 571  
hTRIG5 rate: 1508 hTRIG6 rate: 278

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: Events 622k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 94.959 Max NPS anode current (single crystal) 12.51  $\mu$ A

Run Number: 5967  
I<sub>beam</sub>: 4  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.

PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1

Start time (from RC): 5:56 Stop time (from RC): 6:19

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1290 hTRIG3 rate: 344 hTRIG4 rate: 612  
hTRIG5 rate: 1469 hTRIG6 rate: 2r

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: Events 554k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 1.00 Max NPS anode current (single crystal) 12.8  $\mu$ A

Run Number: 5968  
I<sub>beam</sub>: 2  $\alpha$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.

PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1

Start time (from RC): Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: hTRIG3 rate: hTRIG4 rate:  
hTRIG5 rate: hTRIG6 rate:

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: Events Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal)  $\mu$ A

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 01, 18  
yy mm dd

Initials: T-Sung

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 25-**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS  
p: +1.734  $\theta$ (TV): 25.1  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 25.61  
Nearest 0.005

NPS  
 $\theta$  = SHMS 9.91  
-16.30° Nearest 0.005

3H07A	X	Y
1.697	mm	0.44
Nomin:		Nomin:
3H07C	X	Y
0.74	mm	2.96
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 46 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5969	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 6:15 Stop time (from RC): 6:36	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.52e6 hTRIG5 rate: 2112	hTRIG3 rate: 6207 hTRIG6 rate: 324	hTRIG4 rate: 627 <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 25 $\alpha$ A	Comments:		Events: 1M Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 10	Max NPS anode current (single crystal) (μA): 5.79		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 5970	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 2 PS5: 1 PS6: 1	Start time (from RC): 06:39 Stop time (from RC): 06:55	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.15e6 hTRIG5 rate: 6094	hTRIG3 rate: 1.314 hTRIG6 rate: 200	hTRIG4 rate: 1619 <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 4 $\alpha$ A	Comments:		Events: 4076 Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.94%	Max NPS anode current (single crystal) (μA): 9.25		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 5971	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 06:58 Stop time (from RC): 7:04	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 2.32e6 hTRIG5 rate: 5917	hTRIG3 rate: 1.078 hTRIG6 rate: 160	hTRIG4 rate: 1583 <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 4 $\alpha$ A	Comments:		Events: 5256 Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 94.7%	Max NPS anode current (single crystal) (μA): 9.24		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 5972	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 7:00 Stop time (from RC): 7:32	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 2.36e6 hTRIG5 rate: 6324	hTRIG3 rate: 10955 hTRIG6 rate: 914	hTRIG4 rate: 161 <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : 4 $\alpha$ A	Comments:		Events: 2.14 Charge: C	Active trigger LiveTime fraction (NPS Scaler Gui): 94.7%	Max NPS anode current (single crystal) (μA): 9.51		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 04 12  
yy mm dd

Initials: T-S/SCB

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 28-1

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.57 GeV

Raster:  On  Off  
 Size: 2√2

Beam position and angle on target:

HMS  
 p: +0.1734 From GUI  
 $\theta$ (TV): 25-12 Nearest 0.005

SHMS  
 $\theta$ (TV): 25-61 Nearest 0.005

NPS  
 $\theta$  = SHMS -16.30° Nearest 0.005

3H07A	X	Y
lar	mm 0.24	mm
Nomin:		
3H07C	X	Y
mm 0.35	mm	
Nomin:		

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 4.0 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = 2 Amp

5973

**Run Number:** 5973  
 LH2 10cm  LD2 10cm  Dummy 10cm  
 Optics#1 8cm  C 0.5% r.l.l.  
 I<sub>beam</sub>: 4  $\alpha$ A

PS1: -1 PS2: -1 PS3: 1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 09:37 Stop time (from RC): 8:03

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2366 hTRIG3 rate: 1094 hTRIG4 rate: 1624  
 hTRIG5 rate: 6149 hTRIG6 rate: 907

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: \_\_\_\_\_

Events 2.4M Charge 6nC Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 9.21  $\mu$ A

**Run Number:** 5974  
 LH2 10cm  LD2 10cm  Dummy 10cm  
 Optics#1 8cm  C 0.5% r.l.l.  
 I<sub>beam</sub>: 7  $\alpha$ A

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 8:10 Stop time (from RC): 8:41

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 1876 hTRIG3 rate: 452 hTRIG4 rate: 793  
 hTRIG5 rate: 2005 hTRIG6 rate: 772

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 1st

Events 1.4M Charge 1.0nC Active trigger LiveTime fraction (NPS Scaler Gui) 99.9% Max NPS anode current (single crystal) 9.3  $\mu$ A

**Run Number:** 5975  
 LH2 10cm  LD2 10cm  Dummy 10cm  
 Optics#1 8cm  C 0.5% r.l.l.  
 I<sub>beam</sub>: 7  $\mu$ A

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 8:42 Stop time (from RC): 9:03

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 1966 hTRIG3 rate: 4613 hTRIG4 rate: 805  
 hTRIG5 rate: 2088 hTRIG6 rate: 394

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 2nd

Events 891K Charge 7.5nC Active trigger LiveTime fraction (NPS Scaler Gui) 99.96% Max NPS anode current (single crystal) 9.28  $\mu$ A

MOBLER next

**Run Number:** \_\_\_\_\_  
 LH2 10cm  LD2 10cm  Dummy 10cm  
 Optics#1 8cm  C 0.5% r.l.l.  
 I<sub>beam</sub>: \_\_\_\_\_  $\alpha$ A

PS1: \_\_\_\_\_ PS2: \_\_\_\_\_ PS3: \_\_\_\_\_ PS4: \_\_\_\_\_ PS5: \_\_\_\_\_ PS6: \_\_\_\_\_

Start time (from RC): \_\_\_\_\_ Stop time (from RC): \_\_\_\_\_

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: \_\_\_\_\_ hTRIG3 rate: \_\_\_\_\_ hTRIG4 rate: \_\_\_\_\_  
 hTRIG5 rate: \_\_\_\_\_ hTRIG6 rate: \_\_\_\_\_

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: \_\_\_\_\_

Events \_\_\_\_\_ Charge \_\_\_\_\_ C Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) \_\_\_\_\_  $\mu$ A

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/18  
yy mm dd

Initials: \_\_\_\_\_

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x36-1

$E_{\text{beam}}$ : 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>1.28</u>	mm	<u>0.04</u> mm
Nomin:		Nomin:

**HMS**  
 $\theta$  (TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
 $\theta$  (TV): 27.775  
Nearest 0.005

**NPS**  
 $\theta =$  SHMS 28.34  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet  $I =$  268 Amp  
NPS Upstream Corr.  $I =$  0 Amp  
NPS Upstream Corr.  $I =$  0 Amp

Run Number: <u>5976</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC):  Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate  hTRIG5 rate	hTRIG3 rate  hTRIG6 rate	hTRIG4 rate  Data ok <input type="checkbox"/> Junk <input type="checkbox"/>
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>positrons Junk</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: <u>5977</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:53</u> Stop time (from RC): <u>14:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 MHz</u> hTRIG5 rate <u>8.4 kHz</u>	hTRIG3 rate <u>16 kHz</u> hTRIG6 rate <u>454 Hz</u>	hTRIG4 rate <u>805 Hz</u> Data ok <input checked="" type="checkbox"/> Junk <input type="checkbox"/>
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>positrons 1st</u>	Events <u>1.29M</u> Charge <u>25 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>11</u>
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Run Number: <u>5978</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:27</u> Stop time (from RC): <u>15:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.24 e6</u> hTRIG5 rate <u>8245</u>	hTRIG3 rate <u>16095</u> hTRIG6 rate <u>455</u>	hTRIG4 rate <u>809</u> Data ok <input checked="" type="checkbox"/> Junk <input type="checkbox"/>
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2nd e+</u>	Events <u>1.1M</u> Charge <u>2.6 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>11.19</u>
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Run Number: <u>5979</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:05</u> Stop time (from RC): <u>15:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2 e6</u> hTRIG5 rate <u>8511</u>	hTRIG3 rate <u>15956</u> hTRIG6 rate <u>453</u>	hTRIG4 rate <u>808</u> Data ok <input checked="" type="checkbox"/> Junk <input type="checkbox"/>
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>3rd e+</u>	Events <u>1.47M</u> Charge <u>28 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.96</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>11.87</u>
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/18  
yy mm dd

Initials: SCB

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x J6-1

**Purpose:**

- Production  
 Test  
 Optics  
 Other: e+

HMS, field,  
current OK?  
yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2 mm<sup>2</sup>

Beam position and angle on target:

3H07A	X	Y
<u>1.84</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.76</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:

**HMS**  
p: 1.956  $\theta$ (TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 27.79  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 11.49  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

**Run Number:** 5980  
**I<sub>beam</sub>:** 16  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 15:45  
 Stop time (from RC):  
 Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.2e6  
 hTRIG3 rate: 16242  
 hTRIG4 rate: 793  
 hTRIG5 rate: 8277  
 hTRIG6 rate: 446

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 4TH e+

Events 1.2M Active trigger LiveTime fraction (NPS Scaler Gui) 97.97  
 Charge C Max NPS anode current (single crystal) 11.67 ( $\mu$ A)

**Run Number:** 5981  
**I<sub>beam</sub>:** 8  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 16:28  
 Stop time (from RC): 17:00  
 Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 169e6  
 hTRIG3 rate: 10996.4  
 hTRIG4 rate: 465.6  
 hTRIG5 rate: 3851  
 hTRIG6 rate: 199.6

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: Dummy run

Events 915K Active trigger LiveTime fraction (NPS Scaler Gui) 100  
 Charge C Max NPS anode current (single crystal) ( $\mu$ A)

**Run Number:** 5982  
**I<sub>beam</sub>:** 8  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 18:09  
 Stop time (from RC): 18:40  
 Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.43e6  
 hTRIG3 rate: 24381  
 hTRIG4 rate: 1168  
 hTRIG5 rate: 14036  
 hTRIG6 rate: 713

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: LD2 1st run

Events 1.9M Active trigger LiveTime fraction (NPS Scaler Gui) 100  
 Charge C Max NPS anode current (single crystal) ( $\mu$ A)

**Run Number:** 5983  
**I<sub>beam</sub>:** 8  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 18:45  
 Stop time (from RC): 19:21  
 Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.39e6  
 hTRIG3 rate: 23796  
 hTRIG4 rate: 1148  
 hTRIG5 rate: 13513  
 hTRIG6 rate: 713

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: LD2 2nd run

Events 2.3M Active trigger LiveTime fraction (NPS Scaler Gui) 100  
 Charge C Max NPS anode current (single crystal) ( $\mu$ A)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 09, 18  
yy mm dd

Initials: A. Vojta

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

$E_{beam}$ : 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
 $p$ :  $\pm 1.956$  From GUI  $\theta$ (TV): 28.32 Nearest 0.005

**SHMS**  
 $\theta$ (TV): 27.79 Nearest 0.005

**NPS**  
 $\theta$  = SHMS -16.30° Nearest 0.005

3H07A	X	Y
1.84 mm		0.33 mm
Nomin:		Nomin:
3H07C	X	Y
0.75 mm		0.28 mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 5984	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 19:22 Stop time (from RC): 19:55	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.4e6 hTRIG3 rate: 24156 hTRIG4 rate: 1162 hTRIG5 rate: 13760 hTRIG6 rate: 693	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 8 $\alpha A$	Comments: LD2 3rd run		Events 2M Charge C	Active trigger LiveTime fraction (NPS Scaler Gui): 100	Max NPS anode current (single crystal) ( $\mu A$ )	

Run Number: 5985	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 19:56 Stop time (from RC): 20:28	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.4e6 hTRIG3 rate: 29226 hTRIG4 rate: 1170 hTRIG5 rate: 13718 hTRIG6 rate: 676	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 8 $\alpha A$	Comments: LD2 4th run		Events 2M Charge C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )	

Run Number: 5986	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 20:29 Stop time (from RC): 21:03	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 239e6 hTRIG3 rate: 23907 hTRIG4 rate: 1140 hTRIG5 rate: 13365 hTRIG6 rate: 686	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 8 $\alpha A$	Comments: LD2 5th run		Events 2M Charge C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )	

Run Number: 5987	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 21:05 Stop time (from RC): 21:40	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 2.39e6 hTRIG3 rate: 23851 hTRIG4 rate: 1161 hTRIG5 rate: 13306 hTRIG6 rate: 653	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 8 $\alpha A$	Comments: LD2 6th run		Events 2.1M Charge C	Active trigger LiveTime fraction (NPS Scaler Gui): 100	Max NPS anode current (single crystal) ( $\mu A$ )	

# p(e,e') p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 08, 18  
yy mm dd

Initials: A. Hough

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

**E<sub>beam</sub>: 6.370 GeV**

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

**HMS**  
p:  $\ominus$  1.956  $\theta$ (TV): 28.32  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 27.79  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 11.49  
-16.30° Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
1.84	mm	0.29
Nomin:		Nomin:
3H07C	X	Y
0.75	mm	0.27
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

**Run Number:** 5988  
**I<sub>beam</sub>:** 8  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1  
 Start time (from RC): 21:41 Stop time (from RC): 22:11  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 1.98e6 hTRIG3 rate: 22610 hTRIG4 rate: 1131  
 hTRIG5 rate: 13521 hTRIG6 rate: 676  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: LD2 7th run  
 Events 1.8M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) (uA)

**Run Number:** 5989  
**I<sub>beam</sub>:** 8  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1  
 Start time (from RC): 22:12 Stop time (from RC): 22:43  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.38e6 hTRIG3 rate: 23856 hTRIG4 rate: 1154  
 hTRIG5 rate: 11360 hTRIG6 rate: 685  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: LD2 8th run  
 Events 1.9M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) (uA)

**Run Number:** 5990  
**I<sub>beam</sub>:** 16  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1  
 Start time (from RC): 23:59 Stop time (from RC): 00:33  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.21e6 hTRIG3 rate: 2976 hTRIG4 rate: 721  
 hTRIG5 rate: 1562 hTRIG6 rate: 403  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: LH2 1st run  
 Events 1.2M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 11.58 Max NPS anode current (single crystal) (uA)

**Run Number:** 5991  
**I<sub>beam</sub>:** 16  $\alpha$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1  
 Start time (from RC): 00:38 Stop time (from RC): 00:56  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.22e6 hTRIG3 rate: 2805 hTRIG4 rate: 649  
 hTRIG5 rate: 1519 hTRIG6 rate: 395  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 2/8  
 Events 660L Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 0.795 Max NPS anode current (single crystal) (uA) 10.72

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/19  
yy mm dd

Initials: T. Song

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +0.956 θ(TV): 26.32  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.49  
-16.30° Nearest 0.005

3H07A	X	Y
1.81	mm	0.3
Nomin:		Nomin:
3H07C	X	Y
0.78	mm	0.28
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 46 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 6 Amp

<b>Run Number:</b> 5992	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 1:07	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 2.23e6	hTRIG3 rate 2935	hTRIG4 rate 701
I <sub>beam</sub> : 16 αA	Comments: 3/8		Stop time (from RC): 1:58	Events: 1.697 Charge: C	hTRIG5 rate 1533	hTRIG6 rate 384	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) 99.983		Max NPS anode current (single crystal) 11.4 (μA)				

<b>Run Number:</b> 5991	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 2:15	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate 2.24e6	hTRIG3 rate 2926	hTRIG4 rate 677
I <sub>beam</sub> : 16 αA	Comments: 4/8		Stop time (from RC): 2:45	Events: 1.24 Charge: C	hTRIG5 rate 1560	hTRIG6 rate 385	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) 99.951		Max NPS anode current (single crystal) 10.87 (μA)				

<b>Run Number:</b> 5990	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 2:46	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate 2.23e6	hTRIG3 rate 2936	hTRIG4 rate 729
I <sub>beam</sub> : 16 αA	Comments: 5/8		Stop time (from RC): 3:28	Events: 1.67 Charge: C	hTRIG5 rate 1531	hTRIG6 rate 373	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui) 99.911		Max NPS anode current (single crystal) 11.48 (μA)				

<b>Run Number:</b> 8908	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 3:29	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate 2.25e6	hTRIG3 rate 2978	hTRIG4 rate 729
I <sub>beam</sub> : 16 αA	Comments: 6/8		Stop time (from RC): 4:00	Events: 1.24 Charge: C	hTRIG5 rate 1570	hTRIG6 rate 381	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)		Max NPS anode current (single crystal) 10.2 (μA)				



# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 19  
 yy mm dd

Initials: T. Jung

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 36-1

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
 Size: 2/2

Beam position and angle on target:

**HMS**  
 p: +0.1956  $\theta$ (TV): 26.37  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 27.29  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 11.47  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1845</u> mm	<u>0.3</u> mm	
Nomin:		
3H07C	X	Y
<u>0.748</u> mm	<u>0.33</u> mm	
Nomin:		

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 5916  
 I<sub>beam</sub>: 16  $\mu$ A

LH2 10cm  LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: 1 PS2: 1 PS3: 1 PS4: 1 PS5: 1 PS6: 1

Start time (from RC): 4:02  
 Stop time (from RC): 4:33

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.25e6 hTRIG3 rate: 2924 hTRIG4 rate: 620  
 hTRIG5 rate: 1554 hTRIG6 rate: 407

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 7/8

Events 1.2M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 92.90 Max NPS anode current (single crystal) 10.75 ( $\mu$ A)

Run Number: 592  
 I<sub>beam</sub>: 16  $\mu$ A

LH2 10cm  LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: 1 PS2: 1 PS3: 1 PS4: 1 PS5: 1 PS6: 1

Start time (from RC): 4:34  
 Stop time (from RC): 5:07

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 6 hTRIG3 rate: 2980 hTRIG4 rate: 246  
 hTRIG5 rate: 1581 hTRIG6 rate: 384

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 8/8

Events 1.2M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 92.395 Max NPS anode current (single crystal) 11.19 ( $\mu$ A)

Run Number: 5993  
 I<sub>beam</sub>: 12  $\mu$ A

LH2 10cm  LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: 1 PS2: 1 PS3: 1 PS4: 1 PS5: 1 PS6: 1

Start time (from RC): 5:09  
 Stop time (from RC): 5:36

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 1.38e6 hTRIG3 rate: 2207 hTRIG4 rate: 577  
 hTRIG5 rate: 710 hTRIG6 rate: 193

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: \_\_\_\_\_

Events \_\_\_\_\_ Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 94.905 Max NPS anode current (single crystal) 8.03 ( $\mu$ A)

Run Number: 5944  
 I<sub>beam</sub>: 8  $\mu$ A

LH2 10cm  LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: 1 PS2: 1 PS3: 1 PS4: 1 PS5: 1 PS6: 1

Start time (from RC): 5:33  
 Stop time (from RC): 6:03

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 341pr hTRIG3 rate: 1420 hTRIG4 rate: 376  
 hTRIG5 rate: 310 hTRIG6 rate: 158

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: \_\_\_\_\_

Events 601k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 5.62 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

hallcweb.llab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 19  
yy mm dd

Initials: T-S

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x1

Beam position and angle on target:

**HMS**  
p: +0.1956 θ(TV): 28.32  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.24  
Nearest 0.005

**NPS**  
θ = SHMS 11.44  
-16.30° Nearest 0.005

3H07A	X	Y
	<u>1.65</u> mm	<u>0.237</u> mm
Nomin:		Nomin:
3H07C	X	Y
	<u>0.75</u> mm	<u>0.3</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 4.8 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6000</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>2</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>6:09</u>	Stop time (from RC): <u>6:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>6</u> 2.22e6	hTRIG3 rate <u>295</u> f	hTRIG4 rate <u>7/7</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>16</u> μA	Comments:			Events <u>2016</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>11</u> (μA)			

Run Number: <u>6001</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>16</u> μA	Comments:			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)			

Run Number: <u>6002</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>4</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC):	Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>16</u> μA	Comments:			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)			

Run Number: <u>6003</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>4</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>6:46</u>	Stop time (from RC): <u>7:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>6</u> 2.28e6	hTRIG3 rate <u>3.1</u>	hTRIG4 rate <u>7.8</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>16</u> μA	Comments:			Events <u>2461</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>11.0</u> (μA)			

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/12  
yy mm dd

Initials: T.S.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.57 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: + 0-956  
From GUI  
θ(TV): 28.32  
Nearest 0.005

**SHMS**  
θ(TV): 27.99  
Nearest 0.005

**NPS**  
θ = SHMS 11.49  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.84</u>	mm	<u>0.3/5</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>2.77</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 40 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6004</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>7</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>7:08</u> Stop time (from RC): <u>7:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.83e6</u> hTRIG5 rate: <u>806</u>	hTRIG3 rate: <u>247</u> hTRIG6 rate: <u>201</u>	hTRIG4 rate: <u>442</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>1/3</u>		Events <u>716</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>60</u>	Max NPS anode current (single crystal) (μA): <u>12-7</u>		

Run Number: <u>6005</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>2</u>	Start time (from RC): <u>7:39</u> Stop time (from RC): <u>8:10</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.4 x 10<sup>9</sup></u> hTRIG5 rate: <u>1.3 x 10<sup>6</sup></u>	hTRIG3 rate: <u>3.38 x 10<sup>6</sup></u> hTRIG6 rate: <u>302867</u>	hTRIG4 rate: <u>707564</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>2/3</u>		Events <u>81525</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>94.43</u>	Max NPS anode current (single crystal) (μA): <u>13</u>		

Run Number: <u>6006</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>/</u> Stop time (from RC): <u>/</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>/</u> hTRIG5 rate: <u>/</u>	hTRIG3 rate: <u>/</u> hTRIG6 rate: <u>/</u>	hTRIG4 rate: <u>/</u> <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>killed one of kernel code window</u>		Events <u>X</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>/</u>	Max NPS anode current (single crystal) (μA): <u>/</u>		

Run Number: <u>6007</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:17</u> Stop time (from RC): <u>8:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>8.7 x 10<sup>8</sup></u> hTRIG5 rate: <u>8662217</u>	hTRIG3 rate: <u>2.11 x 10<sup>6</sup></u> hTRIG6 rate: <u>202568</u>	hTRIG4 rate: <u>448991</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>3/3</u>		Events <u>723K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal) (μA): <u>13</u>		

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/19  
yy mm dd

Initials: DMJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-1**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.9073</u> mm		<u>0.5602</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7891</u> mm		<u>0.6317</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0 1.956 θ(TV): 28.32  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.49  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number:

6008

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

8:59

Stop time (from RC):

9:33

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

2.49 x 10<sup>6</sup>

hTRIG3 rate

5.789

hTRIG4 rate

2.04

hTRIG5 rate

5.66

hTRIG6 rate

1.17 x 10<sup>6</sup>

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1/16

Events 2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number:

6009

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

9:35

Stop time (from RC):

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

2.29 x 10<sup>6</sup>

hTRIG3 rate

5.986.8

hTRIG4 rate

1163.2

hTRIG5 rate

3255.4

hTRIG6 rate

674.3

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 2/16

Events 2.1M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number:

6010

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

10:14

Stop time (from RC):

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

—

hTRIG3 rate

—

hTRIG4 rate

—

hTRIG5 rate

—

hTRIG6 rate

—

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Reboot Rebooted VME crates

Events —  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) —

Max NPS anode current (single crystal) — (μA)

Run Number:

6011

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

10:14

Stop time (from RC):

10:22

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate

—

hTRIG3 rate

—

hTRIG4 rate

—

hTRIG5 rate

—

hTRIG6 rate

—

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 3/16 - Beam down

Events 300K  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) — (μA)

Data ok most of time

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/19  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +1.956 θ(TV): 28.32  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.49  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.903</u> mm		<u>0.4420</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.8022</u> mm		<u>0.3069</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: 6012  
I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 10:27  
Stop time (from RC): 10:55

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.42 x 10<sup>6</sup>  
hTRIG3 rate: 6137.5  
hTRIG4 rate: 1219.3  
hTRIG5 rate: 8510.8  
hTRIG6 rate: 724.1

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 3/16 Previous run was short

Events 1.6M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6013  
I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 10:56  
Stop time (from RC): 11:27

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.2 x 10<sup>6</sup>  
hTRIG3 rate: 5885  
hTRIG4 rate: 1176  
hTRIG5 rate: 3231  
hTRIG6 rate: 660

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4/16

Events 2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6014  
I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 10:28  
Stop time (from RC): 12:00

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.35 x 10<sup>6</sup>  
hTRIG3 rate: 5927  
hTRIG4 rate: 1165.8  
hTRIG5 rate: 3283.2  
hTRIG6 rate: 662.7

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 5/16

Events 2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6015  
I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 12:01  
Stop time (from RC): 12:32

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.39 x 10<sup>6</sup>  
hTRIG3 rate: 5990.7  
hTRIG4 rate: 1221.0  
hTRIG5 rate: 3484.7  
hTRIG6 rate: 712.7

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 6/16

Events 2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/07/19  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.903</u>	mm	<u>0.306</u>
Nomin:		Nomin:
3H07C	X	Y
<u>0.7464</u>	mm	<u>0.2922</u>
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0 1.956 θ(TV): 28.32  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.49  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 6016

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 12:33

Stop time (from RC): 13:04

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.26x10<sup>6</sup>

hTRIG5 rate 3425.0

hTRIG3 rate 6124.5

hTRIG6 rate 703.2

hTRIG4 rate 1240.7

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 7/16

Events 2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6017

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 13:05

Stop time (from RC): 13:36

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.13x10<sup>6</sup>

hTRIG5 rate 3243.7

hTRIG3 rate 5950.2

hTRIG6 rate 680.9

hTRIG4 rate 1199.8

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 8/16

Events 2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6018

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 13:37

Stop time (from RC): 13:40

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.2x10<sup>6</sup>

hTRIG5 rate 3247.7

hTRIG3 rate 5992.6

hTRIG6 rate 696.0

hTRIG4 rate 1163.5

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 9/16 beam down short run

Events 72k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6019

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 13:46

Stop time (from RC): 14:16

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.3x10<sup>6</sup>

hTRIG5 rate 3333.9

hTRIG3 rate 5936.8

hTRIG6 rate 676.7

hTRIG4 rate 1190.9

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 9/16 Previous run was short

Events 1.9M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) ~100

Max NPS anode current (single crystal) ~10 (μA)

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/19  
yy mm dd

Initials: MD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0 1.956 θ(TV): 28.32  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.49  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.847</u>	mm	<u>0.2693</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7432</u>	mm	<u>0.2627</u> mm
Nomin:		Nomin:

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 6020  
I<sub>beam</sub>: 8 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 14:38  
Stop time (from RC): 15:11

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.37x10<sup>6</sup> hTRIG3 rate: 5957.8 hTRIG4 rate: 1162.2  
hTRIG5 rate: 3363.2 hTRIG6 rate: 691.3

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 10/16

Events 2M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) ~100 Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6021  
I<sub>beam</sub>: 8 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 15:12  
Stop time (from RC): 15:43

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.3x10<sup>6</sup> hTRIG3 rate: 6079.9 hTRIG4 rate: 1242.6  
hTRIG5 rate: 3382.7 hTRIG6 rate: 671.3

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 11/16

Events 2M Charge C Active trigger LiveTime fraction (NPS Scaler Gui) ~100 Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6022  
I<sub>beam</sub>: 8 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 15:44  
Stop time (from RC): 16:16

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.3x10<sup>6</sup> hTRIG3 rate: 5930.1 hTRIG4 rate: 1189.8  
hTRIG5 rate: 3289.8 hTRIG6 rate: 682.7

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 12/16

Events 2.12M Charge 14.1C Active trigger LiveTime fraction (NPS Scaler Gui) ~100 Max NPS anode current (single crystal) ~10 (μA)

Run Number: 6023  
I<sub>beam</sub>: 8 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 16:17  
Stop time (from RC): 16:47

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.34e6 hTRIG3 rate: 5903 hTRIG4 rate: 1181  
hTRIG5 rate: 3236 hTRIG6 rate: 655

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 13/16 LD2

Events 1.91M Charge 12.7C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.96 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/19  
yy mm dd

Initials: PLM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2 mm

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.75</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	

**HMS**  
p: 1.956 From GUI θ(TV): 28.34 Nearest 0.005

**SHMS**  
θ(TV): 27.79 Nearest 0.005

**NPS**  
θ = SHMS 11.49  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6024</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.33e6</u>	hTRIG3 rate <u>5875</u>	hTRIG4 rate <u>1175</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>17:19</u>		hTRIG5 rate <u>3290</u>	hTRIG6 rate <u>680</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>14/16 LD<sub>2</sub></u>			Events <u>1.98M</u> Charge <u>131C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.87</u> (μA)	

Run Number: <u>6025</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.39e6</u>	hTRIG3 rate <u>6067</u>	hTRIG4 rate <u>1221</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>17:50</u>		hTRIG5 rate <u>3387</u>	hTRIG6 rate <u>696</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>15/16 LD<sub>2</sub></u>			Events <u>1.95M</u> Charge <u>129C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.17</u> (μA)	

Run Number: <u>6026</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.35e6</u>	hTRIG3 rate <u>5958</u>	hTRIG4 rate <u>1188</u>
I <sub>beam</sub> : <u>6</u> μA			Stop time (from RC): <u>18:21</u>		hTRIG5 rate <u>3311</u>	hTRIG6 rate <u>685</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>16/16 LD<sub>2</sub></u>			Events <u>1.85M</u> Charge <u>123C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.35</u> (μA)	

Run Number: <u>6027</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.73e6</u>	hTRIG3 rate <u>4456</u>	hTRIG4 rate <u>871</u>
I <sub>beam</sub> : <u>6</u> μA			Stop time (from RC): <u>18:42</u>		hTRIG5 rate <u>1682</u>	hTRIG6 rate <u>361</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:			Events <u>0.98M</u> Charge <u>65C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.38</u> (μA)	



# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/09/19  
yy mm dd

Initials: Rummy

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2 mm<sup>2</sup>

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +1.956 From GUI θ(TV): 28.34 Nearest 0.005

**SHMS**  
θ(TV): 27.79 Nearest 0.005

**NPS**  
θ = SHMS 11.49  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6028</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:45</u> Stop time (from RC): <u>19:05</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.15e6</u> hTRIG5 rate: <u>808</u>	hTRIG3 rate: <u>2948</u> hTRIG6 rate: <u>193</u>	hTRIG4 rate: <u>599</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 0.68M Charge 4.4C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 4.78 (μA)

Run Number: <u>6030</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:10</u> Stop time (from RC): <u>19:25</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.37e6</u> hTRIG5 rate: <u>3303</u>	hTRIG3 rate: <u>5551</u> hTRIG6 rate: <u>677</u>	hTRIG4 rate: <u>1186</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 6029 → junk, presale too low  
6030 → junk, CDA restant  
Events 0.47M Charge 6.15C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 9.76 (μA)

Run Number: <u>6032</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:37</u> Stop time (from RC): <u>20:07</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.75e6</u> hTRIG5 rate: <u>1541</u>	hTRIG3 rate: <u>3012</u> hTRIG6 rate: <u>388</u>	hTRIG4 rate: <u>708</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 1/8 LH<sub>2</sub>  
Events 1.05M Charge 2.4C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 11.35 (μA)

Run Number: <u>6033</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:08</u> Stop time (from RC): <u>20:38</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.22e6</u> hTRIG5 rate: <u>1552</u>	hTRIG3 rate: <u>2936</u> hTRIG6 rate: <u>373</u>	hTRIG4 rate: <u>709</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 2/8 LH<sub>2</sub>  
Events 1.05M Charge 2.3C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 11.25 (μA)

# p(e,e'y) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24,04,19  
yy mm dd

Initials: Rum

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_36\_1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2 mm

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		
3H07C	X	Y
<u>6.75</u> mm		<u>0.3</u> mm
Nomin:		

**HMS**

**SHMS**

**NPS**

p: +/- 1.956 θ(TV): 28.34  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.49  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6034</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:39</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.22e6</u>	hTRIG3 rate <u>2959</u>	hTRIG4 rate <u>732</u>
I <sub>beam</sub> : <u>16</u> μA	Stop time (from RC): <u>21:09</u>			hTRIG5 rate <u>1479</u>	hTRIG6 rate <u>369</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>3/8 LHz</u>	Events <u>1.04M</u> Charge <u>25.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>11.15</u> (μA)
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Run Number: <u>6035</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:10</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.22e6</u>	hTRIG3 rate <u>2937</u>	hTRIG4 rate <u>734</u>
I <sub>beam</sub> : <u>16</u> μA	Stop time (from RC): <u>21:40</u>			hTRIG5 rate <u>1562</u>	hTRIG6 rate <u>387</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>4/8 LHz</u>	Events <u>1.2M</u> Charge <u>26.1C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>11.3</u> (μA)
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Run Number: <u>6036</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:41</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.21e6</u>	hTRIG3 rate <u>2946</u>	hTRIG4 rate <u>721</u>
I <sub>beam</sub> : <u>16</u> μA	Stop time (from RC): <u>22:11</u>			hTRIG5 rate <u>1536</u>	hTRIG6 rate <u>378</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>5/8 LHz</u>	Events <u>1.15M</u> Charge <u>25.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>11.22</u> (μA)
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Run Number: <u>6037</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:12</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.3e6</u>	hTRIG3 rate <u>3034</u>	hTRIG4 rate <u>734</u>
I <sub>beam</sub> : <u>16</u> μA	Stop time (from RC): <u>22:42</u>			hTRIG5 rate <u>1566</u>	hTRIG6 rate <u>395</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6/8 LHz</u>	Events <u>1.75M</u> Charge <u>27.3C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.89</u> (μA)
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# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 09  
yy mm dd

Initials: RM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 637 GeV

Raster:  On  Off  
 Size: 2x2mm

Beam position and angle on target:

**HMS**  
 p: +0.1956 θ(TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 27.79  
Nearest 0.005

**NPS**  
 θ = SHMS 11.99  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.88</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 4.68 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 6 Amp

Run Number: <u>6038</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:43</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate: <u>222.6</u>	hTRIG3 rate: <u>2007</u>	hTRIG4 rate: <u>736</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>7/8 MHz</u>			Events <u>1.32M</u> Charge <u>28.8C</u>	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>10.83</u> (μA)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

Run Number: <u>6039</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:15</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate: <u>2.22e6</u>	hTRIG3 rate: <u>2990</u>	hTRIG4 rate: <u>720</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>8/8 MHz</u>			Events <u>1.32M</u> Charge <u>28.8C</u>	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>11.19</u> (μA)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

Run Number: <u>6040</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:52</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate: <u>1.17e6</u>	hTRIG3 rate: <u>2175</u>	hTRIG4 rate: <u>546</u>
I <sub>beam</sub> : <u>12</u> μA	Comments: <u>00:14</u>			Events <u>640k</u> Charge <u>13.88mC</u>	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>8.41</u> (μA)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

Run Number: <u>6041</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:15</u> <u>15:57</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate: <u>7.08-10<sup>5</sup></u>	hTRIG3 rate: <u>1480.0</u>	hTRIG4 rate: <u>368.3</u>
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>400:48</u>			Events <u>79k</u> Charge <u>C</u>	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime: <u>100%</u>	Max NPS anode current (single crystal): <u>4.85</u> (μA)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24,04,20  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>189</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.29</u>	mm	<u>0.68</u> mm
Nomin:		Nomin:

**HMS**  
p: +0 1.956 θ(TV): 28.39  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS** -16.55  
θ = SHMS 16.34  
-16.30 Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6042</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:55</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.57 · 10<sup>6</sup></u>	hTRIG3 rate <u>223.16</u>	hTRIG4 rate <u>715.7</u>
I <sub>beam</sub> : <u>16</u> μA			Stop time (from RC): <u>01:19</u>		hTRIG5 rate <u>1541.1</u>	hTRIG6 rate <u>402.6</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>328K</u> Charge <u>430 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.0%</u>	Max NPS anode current (single crystal) <u>11.32</u> (μA)
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Run Number: <u>6043</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>4</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>16</u> μA			Stop time (from RC): <u>1:41</u>		hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>342K</u> Charge <u>16.49 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA)
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Run Number: <u>6044</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.36 · 10<sup>5</sup></u>	hTRIG3 rate <u>223.2</u>	hTRIG4 rate <u>459.4</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>02:34</u>		hTRIG5 rate <u>836.6</u>	hTRIG6 rate <u>206.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: # 1/3 30min runs	Events <u>783K</u> Charge <u>13.55 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.97%</u>	Max NPS anode current (single crystal) <u>13.37</u> (μA)
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Run Number: <u>6045</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:35</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>8.75 · 10<sup>5</sup></u>	hTRIG3 rate <u>2178</u>	hTRIG4 rate <u>451.9</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>3:06</u>		hTRIG5 rate <u>844.0</u>	hTRIG6 rate <u>196.8</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: # 2/3 30min runs	Events <u>775K</u> Charge <u>13.52 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00%</u>	Max NPS anode current (single crystal) <u>12.76</u> (μA)
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 20  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

Production

Test

Optics

Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +1.956 θ(TV): 28.32  
From GUI Nearest 0.005

θ(TV): 27.079  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = off Amp NPS Upstream Corr. I = off Amp

Run Number: <u>6046</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.22·10<sup>5</sup></u>	hTRIG3 rate <u>2240.5</u>	hTRIG4 rate <u>449.1</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>03:42</u>		hTRIG5 rate <u>837.1</u>	hTRIG6 rate <u>210.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#3/3 30 min runs</u>	Events <u>805k</u> Charge <u>3.95 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.39%</u>	Max NPS anode current (single crystal) <u>12.80</u> (μA)
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Run Number: <u>6047</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.27·10<sup>6</sup></u>	hTRIG3 rate <u>6026.5</u>	hTRIG4 rate <u>1211.9</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>4:30</u>		hTRIG5 rate <u>3477.2</u>	hTRIG6 rate <u>695.0</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#1/16</u>	Events <u>2 mill</u> Charge <u>2.99 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.88%</u>	Max NPS anode current (single crystal) <u>10.15</u> (μA)
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Run Number: <u>6048</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.27·10<sup>6</sup></u>	hTRIG3 rate <u>6203.8</u>	hTRIG4 rate <u>1242.3</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>4:56</u>		hTRIG5 rate <u>3474.1</u>	hTRIG6 rate <u>709.8</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#2/16</u> <u>only ~20min of beam on</u>	Events <u>1.4 mill</u> Charge <u>9.29 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.90%</u>	Max NPS anode current (single crystal) <u>9.93</u> (μA)
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Run Number: <u>6049</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>5:12</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.20·10<sup>6</sup></u>	hTRIG3 rate <u>5880.2</u>	hTRIG4 rate <u>1192.6</u>
I <sub>beam</sub> : <u>8</u> μA			Stop time (from RC): <u>6:01</u>		hTRIG5 rate <u>3241.5</u>	hTRIG6 rate <u>657.9</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#3/16</u>	Events <u>3.3M</u> <u>21.60</u> Charge <u>MC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.96%</u>	Max NPS anode current (single crystal) <u>9.73</u> (μA)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 20  
 yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.76</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1956  $\theta$ (TV): 28.37  
From GUI Nearest 0.005

$\theta$ (TV): 27.79  
Nearest 0.005

$\theta$  = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 4.68 Amp NPS Upstream Corr. I = 0.81 Amp NPS Upstream Corr. I = 4.6 Amp

Run Number: <u>6050</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.20 · 10<sup>6</sup></u>	hTRIG3 rate <u>5958.3</u>	hTRIG4 rate <u>1174.9</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>6:35</u>		hTRIG5 rate <u>3241.2</u>	hTRIG6 rate <u>671.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#4/16</u>	Events <u>2.111</u> Charge <u>13.53</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.94%</u>	Max NPS anode current (single crystal) <u>9.66</u> ( $\mu$ A)
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Run Number: <u>6051</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>3:06:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.27 · 10<sup>6</sup></u>	hTRIG3 rate <u>601.9</u>	hTRIG4 rate <u>1262.7</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>07:11</u>		hTRIG5 rate <u>3450.3</u>	hTRIG6 rate <u>3415.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#5/16</u>	Events <u>2.221</u> Charge <u>14.4</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.835</u>	Max NPS anode current (single crystal) <u>9.78</u> ( $\mu$ A)
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Run Number: <u>6052</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.32 · 10<sup>6</sup></u>	hTRIG3 rate <u>6093.4</u>	hTRIG4 rate <u>1187.6</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>07:46</u>		hTRIG5 rate <u>3199.6</u>	hTRIG6 rate <u>643</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#6/16</u>	Events <u>2.111</u> Charge <u>14.21</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.85</u>	Max NPS anode current (single crystal) <u>9.21</u> ( $\mu$ A)
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Run Number: <u>6053</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>7:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.26 · 10<sup>6</sup></u>	hTRIG3 rate <u>6133.9</u>	hTRIG4 rate <u>1234.6</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>8:19</u>		hTRIG5 rate <u>3477.5</u>	hTRIG6 rate <u>709.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#7/16</u> <u>Data ok ✓</u>	Events <u>2.011</u> Charge <u>13.45</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.45</u> ( $\mu$ A)
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(beam on time 28 min)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/20  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

Kinematics: KinC\_x36-1

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.8577</u> mm		<u>0.2788</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7289</u> mm		<u>0.2864</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1956 θ(TV): 28.37  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = --- Amp NPS Upstream Corr. I = --- Amp

Run Number: <u>6054</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:20</u> Stop time (from RC): <u>8:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.4x10<sup>6</sup></u> hTRIG5 rate: <u>3748.9</u>	hTRIG3 rate: <u>6183.7</u> hTRIG6 rate: <u>713.3</u>	hTRIG4 rate: <u>1197.7</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: # 8/16 [19min]  
Events 1.3M Charge 8.9C Active trigger LiveTime fraction (NPS Scaler Gui) 99.08% Max NPS anode current (single crystal) ~10 (μA)

Run Number: <u>6055</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:44</u> Stop time (from RC): <u>9:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.4x10<sup>6</sup></u> hTRIG5 rate: <u>3561.1</u>	hTRIG3 rate: <u>6171.4</u> hTRIG6 rate: <u>678.4</u>	hTRIG4 rate: <u>1239.7</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: # 8/16 [23 min]  
Events 1M Charge 5.9C Active trigger LiveTime fraction (NPS Scaler Gui) ~99.42% Max NPS anode current (single crystal) ~10 (μA)

Run Number: <u>6056</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:02</u> Stop time (from RC): <u>9:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.4x10<sup>6</sup></u> hTRIG5 rate: <u>3536.1</u>	hTRIG3 rate: <u>6194.1</u> hTRIG6 rate: <u>707.4</u>	hTRIG4 rate: <u>1199.6</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: # 9/16 [beam on time - 27 min]  
Events 2M Charge 13.2C Active trigger LiveTime fraction (NPS Scaler Gui) ~98.89% Max NPS anode current (single crystal) ~9.68 (μA)

Run Number: <u>6057</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:32</u> Stop time (from RC): <u>10:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3x10<sup>6</sup></u> hTRIG5 rate: <u>3359.4</u>	hTRIG3 rate: <u>6096.6</u> hTRIG6 rate: <u>659.8</u>	hTRIG4 rate: <u>1191.9</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: # 10/16 [beam on time - 29.66 min]  
Events 2.1M Charge 14C Active trigger LiveTime fraction (NPS Scaler Gui) ~99.26% Max NPS anode current (single crystal) ~10 (μA)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/20  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.845</u> mm		<u>0.306</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.755</u> mm		<u>0.303</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1956  $\theta$ (TV): 28.37  
From GUI Nearest 0.005

$\theta$ (TV): 27.79  
Nearest 0.005

$\theta$  = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>6058</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>/</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>/</u>	hTRIG3 rate <u>/</u>	hTRIG4 rate <u>/</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>/</u>		hTRIG5 rate <u>/</u>	hTRIG6 rate <u>/</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: # Coda crashed

Events / Charge C Active trigger LiveTime fraction (NPS Scaler Gui) / Max NPS anode current (single crystal) / ( $\mu$ A)

Run Number: <u>6059</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3x10<sup>6</sup></u>	hTRIG3 rate <u>5908.3</u>	hTRIG4 rate <u>1150.4</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>10:49</u>		hTRIG5 rate <u>3125.9</u>	hTRIG6 rate <u>630.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: # 11/16 [ beam on time 29.4 min

Events 2.1M Charge 14.2C Active trigger LiveTime fraction (NPS Scaler Gui) 99.13% Max NPS anode current (single crystal) ~10 ( $\mu$ A)

Run Number: <u>6060</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3x10<sup>6</sup></u>	hTRIG3 rate <u>6070.2</u>	hTRIG4 rate <u>1211.5</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>11:22</u>		hTRIG5 rate <u>3247.2</u>	hTRIG6 rate <u>668.3</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: # 12/16 [ beam on time - 29.77 min

Events 2.2M Charge 14C Active trigger LiveTime fraction (NPS Scaler Gui) ~98.93% Max NPS anode current (single crystal) ~10 ( $\mu$ A)

Run Number: <u>6061</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2x10<sup>6</sup></u>	hTRIG3 rate <u>5769.6</u>	hTRIG4 rate <u>1184.4</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A			Stop time (from RC): <u>12:02</u>		hTRIG5 rate <u>3080.6</u>	hTRIG6 rate <u>627.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: # 13/16 [ beam on time - 33.87 min

Events 2.3M Charge 15C Active trigger LiveTime fraction (NPS Scaler Gui) ~99.3% Max NPS anode current (single crystal) ~10 ( $\mu$ A)



# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/20  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0 1.956 θ(TV): 28.37  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 27.79  
Nearest 0.005

**NPS**  
 θ = SHMS 11.24  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.851</u> mm		<u>0.291</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.749</u> mm		<u>0.296</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

**Run Number:** 6062  
 I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 12:04  
 Stop time (from RC): 12:42

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.3x10<sup>6</sup>  
 hTRIG3 rate: 5978.0  
 hTRIG4 rate: 1191.1  
 hTRIG5 rate: 3250.4  
 hTRIG6 rate: 659.6

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: # 14/16 beam on time 31:53 min

Events 2.2M Charge 14 C  
 Active trigger LiveTime fraction (NPS Scaler Gui) ~99.13%  
 Max NPS anode current (single crystal) ~10 (μA)

run needs to be checked

**Run Number:** 6063  
 I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 12:43  
 Stop time (from RC): 13:16

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.3x10<sup>6</sup>  
 hTRIG3 rate: 5984.1  
 hTRIG4 rate: 1191.9  
 hTRIG5 rate: 3314.4  
 hTRIG6 rate: 683.3

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: # 15/16 beam on time 31:51

Events 2.2M Charge 15 C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.3  
 Max NPS anode current (single crystal) ~10 (μA)

run needs to be checked

**Run Number:** 6064  
 I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 13:17  
 Stop time (from RC): 13:36

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.4x10<sup>6</sup>  
 hTRIG3 rate: 6089.6  
 hTRIG4 rate: 1231.7  
 hTRIG5 rate: 3408.8  
 hTRIG6 rate: 674.4

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: # 16/16 beam on time 18:13 min

Events 1.3M Charge 88 C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.07%  
 Max NPS anode current (single crystal) ~10 (μA)

run needs to be checked

**Run Number:** 6065  
 I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1

Start time (from RC): 14:33  
 Stop time (from RC): 15:06

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.3x10<sup>6</sup>  
 hTRIG3 rate: 5939.9  
 hTRIG4 rate: 1193.6  
 hTRIG5 rate: 3282.6  
 hTRIG6 rate: 652.1

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: # 17 beam time run needs to be checked

Events 2.2M Charge 14 C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 98.91%  
 Max NPS anode current (single crystal) ~10 (μA)

→ retaking 6062, 6063, 6064 runs  
 ↳ last 10 min.  
 ↳ run need  
 ↳ 6065: temp is still unstable.

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/20  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.848</u> mm		<u>0.314</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.748</u> mm		<u>0.294</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0 1.956 θ(TV): 28.37  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve    
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>6066</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:08</u> Stop time (from RC): <u>15:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3x10<sup>6</sup></u> hTRIG5 rate <u>3225.9</u>	hTRIG3 rate <u>5902.8</u> hTRIG6 rate <u>681.8</u>	hTRIG4 rate <u>1190.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#18, beam on time 31.96</u>	Events <u>2.2M</u> Charge <u>15C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.11%</u>	Max NPS anode current (single crystal) <u>~10 (μA)</u>
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Run 6067

Run Number: <u>6067</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:43</u> Stop time (from RC): <u>16:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3x10<sup>6</sup></u> hTRIG5 rate <u>3363.4</u>	hTRIG3 rate <u>6066.0</u> hTRIG6 rate <u>681.4</u>	hTRIG4 rate <u>1205.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>run-6067 #19</u>	Events <u>1.97M</u> Charge <u>13.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~10 (μA)</u>
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Run Number: <u>6068</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:16</u> Stop time (from RC): <u>16:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8e6</u> hTRIG5 rate <u>1873</u>	hTRIG3 rate <u>4650</u> hTRIG6 rate <u>399</u>	hTRIG4 rate <u>951</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>6 μA</u>	Events <u>464k</u> Charge <u>6.3C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~7.5 (μA)</u>
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Run Number: <u>6069</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:39</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2e6</u> hTRIG5 rate <u>760</u>	hTRIG3 rate <u>3126</u> hTRIG6 rate <u>181</u>	hTRIG4 rate <u>604</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>4 μA</u>	Events <u>652k</u> Charge <u>4.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>MS (μA)</u>
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# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/20  
yy mm dd

Initials: JOH

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36-1

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

**HMS**  
p: +0 6.956 θ(TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6070</u>	<input type="checkbox"/> LH2 10cm	PS1: <u>-</u>	Start time (from RC): <u>17:02</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>8</u> μA	<input checked="" type="checkbox"/> LD2 10cm	PS2: <u>-</u>	Stop time (from RC): <u>17:03</u>	<input type="checkbox"/> HV OK?	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok
	<input type="checkbox"/> Dummy 10cm	PS3: <u>-</u>		<input type="checkbox"/> 50k OK?			<input checked="" type="checkbox"/> Junk
	<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
	<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-</u>					
	<input type="checkbox"/>	PS6: <u>-</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: Rate too high rate = 300MB/s  
Coin, 8 μA ended for ps change  
Events 57k Charge 6.6 C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) (μA) \_\_\_\_\_

Run Number: <u>6071</u>	<input type="checkbox"/> LH2 10cm	PS1: <u>-</u>	Start time (from RC): <u>17:04</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate <u>2.4e6</u>	hTRIG3 rate <u>6130</u>	hTRIG4 rate <u>1228</u>
I <sub>beam</sub> : <u>8</u> μA	<input checked="" type="checkbox"/> LD2 10cm	PS2: <u>-</u>	Stop time (from RC): <u>17:20</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate <u>3513</u>	hTRIG6 rate <u>698</u>	<input checked="" type="checkbox"/> Data ok
	<input type="checkbox"/> Dummy 10cm	PS3: <u>0</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
	<input type="checkbox"/> Optics#1 8cm	PS4: <u>1</u>					
	<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-</u>					
	<input type="checkbox"/>	PS6: <u>-</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: coin, 8 μA  
Events 487k Charge 6.6 C  
Active trigger LiveTime fraction (NPS Scaler Gui) ~99.75%  
Max NPS anode current (single crystal) (μA) ~10

Run Number: <u>6072</u>	<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-</u>	Start time (from RC): <u>17:33</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>2915</u>	hTRIG4 rate <u>685</u>
I <sub>beam</sub> : <u>16</u> μA	<input type="checkbox"/> LD2 10cm	PS2: <u>-</u>	Stop time (from RC): <u>18:03</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate <u>1503</u>	hTRIG6 rate <u>380</u>	<input checked="" type="checkbox"/> Data ok
	<input type="checkbox"/> Dummy 10cm	PS3: <u>-</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
	<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
	<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-</u>					
	<input type="checkbox"/>	PS6: <u>-</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: #1/8 30 min LH2 runs  
Bad beam - trippy  
Events 1.0M Charge 2.9 C  
Active trigger LiveTime fraction (NPS Scaler Gui) ~99.9%  
Max NPS anode current (single crystal) (μA) ~11.3 μA

Run Number: <u>6073</u>	<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-</u>	Start time (from RC): <u>18:04</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>3000</u>	hTRIG4 rate <u>745</u>
I <sub>beam</sub> : <u>16</u> μA	<input type="checkbox"/> LD2 10cm	PS2: <u>-</u>	Stop time (from RC): <u>18:34</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate <u>1600</u>	hTRIG6 rate <u>400</u>	<input checked="" type="checkbox"/> Data ok
	<input type="checkbox"/> Dummy 10cm	PS3: <u>-</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
	<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
	<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-</u>					
	<input type="checkbox"/>	PS6: <u>-</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: #2/8 LH2  
Events 1.2 M Charge 2.6 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.95%  
Max NPS anode current (single crystal) (μA) ~11

# p(e,e') p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 / 04 / 20  
yy mm dd

Initials: JOH

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 86-1

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.956 θ(TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.24  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.86</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.33</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 46A Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>60784</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:35</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>2960</u>	hTRIG4 rate <u>725</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>#3/8 LH2</u>			Events <u>1.2h</u> Charge <u>26.4C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98%</u>	Max NPS anode current (single crystal) <u>11.4</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>6075</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:06</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>3028</u>	hTRIG4 rate <u>729</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>4/8 LH2</u>			Events <u>1.1h</u> Charge <u>24.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>~11</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>6076</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:37</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>2954</u>	hTRIG4 rate <u>732</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>5/8 LH2</u>			Events <u>1.1h</u> Charge <u>23.7C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.96%</u>	Max NPS anode current (single crystal) <u>11.3</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>6077</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:08</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>2912</u>	hTRIG4 rate <u>706</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>6/8 LH2</u>			Events <u>1.2h</u> Charge <u>26.4C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98%</u>	Max NPS anode current (single crystal) <u>10.7</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> oin <input type="checkbox"/> oin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/20  
yy mm dd

Initials: Jon

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.1956 θ(TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.24  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.85</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.74</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>6078</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>2957</u>	hTRIG4 rate <u>739</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>7/8 LH2</u>			Events <u>1.24</u> Charge <u>25.9</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.93%</u>	Max NPS anode current (single crystal) <u>11.0</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>6079</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>3013</u>	hTRIG4 rate <u>711</u>
I <sub>beam</sub> : <u>16</u> μA	Comments: <u>8/8 LH2</u>			Events <u>1.14</u> Charge <u>24.8</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.97%</u>	Max NPS anode current (single crystal) <u>11.3</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>6080</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.4e6</u>	hTRIG3 rate <u>2249</u>	hTRIG4 rate <u>553</u>
I <sub>beam</sub> : <u>12</u> μA	Comments: <u>12μA</u>			Events <u>578</u> k Charge <u>12.4</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.5</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>6081</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>8.1e5</u>	hTRIG3 rate <u>1503</u>	hTRIG4 rate <u>396</u>
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>8μA</u>			Events <u>672</u> k Charge <u>13.9</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.7</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/20  
yy mm dd

Initials: JOH

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0 1.956 θ(TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.24  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.25</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.26</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 46A Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 6082  
I<sub>beam</sub>: 16 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 2  
PS5: -1  
PS6: -1

Start time (from RC): 22:39

Stop time (from RC): 22:55

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.2e6

hTRIG5 rate: 1537

hTRIG3 rate: 2925

hTRIG6 rate: 378

hTRIG4 rate: 707  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: coin, 16μA, p54=2

Events 213k  
Charge 14.1 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 11 (μA)

Run Number: 6083  
beam: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 23:08

Stop time (from RC): 23:38

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.7e6

hTRIG5 rate: 864

hTRIG3 rate: 2211

hTRIG6 rate: 196

hTRIG4 rate: 442  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Dummy 1/3

Events 735k  
Charge 12.8 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 12.75 (μA)

Run Number: 6084  
I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 23:39

Stop time (from RC): 00:10

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.7e6

hTRIG5 rate: 853

hTRIG3 rate: 2200

hTRIG6 rate: 202

hTRIG4 rate: 446  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 2/3

Events 771k  
Charge 13.4 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 13.0 (μA)

Run Number: 6085  
I<sub>beam</sub>: 8 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 00:11

Stop time (from RC): 00:43

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.7e6

hTRIG5 rate: 847

hTRIG3 rate: 2200

hTRIG6 rate: 194

hTRIG4 rate: 473  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 3/3

Events 786k  
Charge 13.5 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 12.64 (μA)

# p(e,e') p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/21  
yy mm dd

Initials: FC

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.26</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- 1.956 θ(TV): 28.32  
From GUI Nearest 0.005

**SHMS**  
θ(TV): -27.79  
Nearest 0.005

**NPS**  
θ = SHMS 11.24  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6086</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: <u>4</u> PS4: - PS5: - PS6: -	Start time (from RC): <u>00:55</u>	Stop time (from RC): <u>01:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3e6</u>	hTRIG3 rate <u>5885</u>	hTRIG4 rate <u>1161</u>
I <sub>beam</sub> : <u>8</u> μA	Comments:			Events <u>488k</u> Charge <u>5.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.76</u> (μA)		

coin\_sparse   
coin   
coin\_sparse\_low

Run Number: <u>6087</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: <u>0</u> PS5: - PS6: -	Start time (from RC): <u>1:04.15</u>	Stop time (from RC): <u>1:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3e6</u>	hTRIG3 rate <u>5994</u>	hTRIG4 rate <u>1198</u>
I <sub>beam</sub> : <u>8</u> μA	Comments:			Events <u>2.04M</u> Charge <u>3.3C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.75</u> (μA)		

coin\_sparse   
coin   
coin\_sparse\_low

Run Number: <u>6088</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: <u>0</u> PS5: - PS6: -	Start time (from RC): <u>1:48</u>	Stop time (from RC): <u>2:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3e6</u>	hTRIG3 rate <u>5993</u>	hTRIG4 rate <u>1185</u>
I <sub>beam</sub> : <u>8</u> μA	Comments:			Events <u>1.07M</u> Charge <u>7mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.75</u> (μA)		

coin\_sparse   
coin   
coin\_sparse\_low

Run Number: <u>6089</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: <u>0</u> PS5: - PS6: -	Start time (from RC): <u>2:31</u>	Stop time (from RC): <u>3:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3e6</u>	hTRIG3 rate <u>5569</u>	hTRIG4 rate <u>1140</u>
I <sub>beam</sub> : <u>8</u> μA	Comments:			Events <u>2.3M</u> Charge <u>5.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>9.75</u> (μA)		

coin\_sparse   
coin   
coin\_sparse\_low

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 27/4/21  
yy mm dd

Initials: FC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36.1

E<sub>beam</sub>: 6.3 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.25</u> mm		<u>0.26</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- 1.9 θ(TV): 28.32  
From GUI Nearest 0.005

θ(TV): -27.79  
Nearest 0.005

θ = SHMS 11.21  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

**Run Number:**

6090

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC): 3:14

Stop time (from RC): 3:47

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.3e6

hTRIG3 rate 5894

hTRIG4 rate 1200

hTRIG5 rate 3158

hTRIG6 rate 685

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4/16

Events 2m  
Charge 13.2mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 9.67 (μA)

**Run Number:**

6091

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC): 3:49

Stop time (from RC): 4:19

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.3e6

hTRIG3 rate 5890

hTRIG4 rate 1171

hTRIG5 rate 3310

hTRIG6 rate 678

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 5/16

Events 1.8m  
Charge 12.4mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 9.67 (μA)

**Run Number:**

6092

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC): 4:20

Stop time (from RC): 4:30

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.3e6

hTRIG3 rate 5891

hTRIG4 rate 1180

hTRIG5 rate 3188

hTRIG6 rate 666

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 6/16

Events 550k  
Charge 3.6mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 9.67 (μA)

**Run Number:**

6093

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC): 4:37

Stop time (from RC): 4:39

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate 2.3e6

hTRIG3 rate 5913

hTRIG4 rate 1198

hTRIG5 rate 3237

hTRIG6 rate 657

- Data ok
- Junk

coin\_sparse   
coin   
n\_sparse\_low

Comments: 67/16 part 2

Events 5k  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 9.67 (μA)



# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/21  
 yy mm dd

Initials: FC

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-1**

E<sub>beam</sub>: 6.3 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.26</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- 1.9 θ(TV): 28.32  
From GUI Nearest 0.005

θ(TV): 27.29  
Nearest 0.005

θ = SHMS 11.24  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 0.69 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>6094</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>5:05</u> Stop time (from RC): <u>5:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3322</u>	hTRIG3 rate: <u>5884</u> hTRIG6 rate: <u>696</u>	hTRIG4 rate: <u>1199</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>6/16 part 3</u>			Events <u>1.3m</u> Charge <u>8.7C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>9.89</u> (μA)	

Run Number: <u>6095</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>5:30</u> Stop time (from RC): <u>6:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3335</u>	hTRIG3 rate: <u>6011</u> hTRIG6 rate: <u>680</u>	hTRIG4 rate: <u>1209</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>7/16</u>			Events <u>2.1m</u> Charge <u>4.1C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>9.73</u> (μA)	

Run Number: <u>6096</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>6:04</u> Stop time (from RC): <u>6:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3344</u>	hTRIG3 rate: <u>6022</u> hTRIG6 rate: <u>679</u>	hTRIG4 rate: <u>1208</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>8/16</u>			Events <u>1.7m</u> Charge <u>4.4C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>9.76</u> (μA)	

Run Number: <u>6097</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>6:36</u> Stop time (from RC): <u>7:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3390</u>	hTRIG3 rate: <u>5938</u> hTRIG6 rate: <u>663</u>	hTRIG4 rate: <u>1196</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>9/16</u>			Events <u>1.9m</u> Charge <u>4.1C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>9.8</u> (μA)	

13m

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/4/21  
yy mm dd

Initials: FC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36\_1

E<sub>beam</sub>: 6.3 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.26</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +/- 1.9 θ(TV): 28.32  
From GUI Nearest 0.005

θ(TV): -27.79  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 464 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6098</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>7:12</u> Stop time (from RC): <u>7:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.36e6</u> hTRIG5 rate: <u>3318</u>	hTRIG3 rate: <u>6125</u> hTRIG6 rate: <u>710</u>	hTRIG4 rate: <u>1225</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 10/16  
Events 2.1M Charge 14nC Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 9.98 (μA)

Run Number: <u>6099</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>7:46</u> Stop time (from RC): <u>8:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3331</u>	hTRIG3 rate: <u>6020</u> hTRIG6 rate: <u>681</u>	hTRIG4 rate: <u>1193</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 11/16 beam time  
Events 2.1M Charge 14C Active trigger LiveTime fraction (NPS Scaler Gui) ~100 Max NPS anode current (single crystal) 9.52 (μA)

Run Number: <u>6100</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:21</u> Stop time (from RC): <u>8:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.2e6</u> hTRIG5 rate: <u>3322.4</u>	hTRIG3 rate: <u>6042.3</u> hTRIG6 rate: <u>697.4</u>	hTRIG4 rate: <u>1188.1</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: #12/16 beam on time  
Events 2.2M Charge 15C Active trigger LiveTime fraction (NPS Scaler Gui) 98.88% Max NPS anode current (single crystal) ~10 (μA)

Run Number: <u>6101</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:54</u> Stop time (from RC): <u>9:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3402.7</u>	hTRIG3 rate: <u>6021.3</u> hTRIG6 rate: <u>683.4</u>	hTRIG4 rate: <u>1199.5</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: #13/16 short run  
Events 700k Charge 1C Active trigger LiveTime fraction (NPS Scaler Gui) 99.71% Max NPS anode current (single crystal) ~10 (μA)

taking one more run  
due to loop 2 heater power issue.

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 21  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
1.872 mm		0.326 mm
Nomin:		Nomin:
3H07C	X	Y
0.749 mm		0.337 mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0 1.956 θ(TV): 28.34  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>6102</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:05</u> Stop time (from RC): <u>9:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 e<sup>6</sup></u> hTRIG5 rate <u>3428.3</u>	hTRIG3 rate <u>6134.1</u> hTRIG6 rate <u>711.3</u>	hTRIG4 rate <u>1205.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low  Comments: #13/16 last run was short

Events 2.1M Charge 14 C Active trigger LiveTime fraction (NPS Scaler Gui) 98.59% Max NPS anode current (single crystal) ~10 (μA)

Run Number: <u>6103</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:38</u> Stop time (from RC): <u>10:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 e<sup>6</sup></u> hTRIG5 rate <u>3707.1</u>	hTRIG3 rate <u>6023.7</u> hTRIG6 rate <u>636.2</u>	hTRIG4 rate <u>1199.5</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low  Comments: #14/16

Events 2.1M Charge 14 C Active trigger LiveTime fraction (NPS Scaler Gui) 99.21% Max NPS anode current (single crystal) ~10 (μA)

Run Number: <u>6104</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:23</u> Stop time (from RC): <u>10:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 e<sup>6</sup></u> hTRIG5 rate <u>3186.1</u>	hTRIG3 rate <u>5906.4</u> hTRIG6 rate <u>650.0</u>	hTRIG4 rate <u>1206.9</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low  Comments: #15/16

Events 2.2M Charge 14 C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~10 (μA)

Run Number: <u>6105</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:57</u> Stop time (from RC): <u>11:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 e<sup>6</sup></u> hTRIG5 rate <u>3416.2</u>	hTRIG3 rate <u>6028.7</u> hTRIG6 rate <u>697.4</u>	hTRIG4 rate <u>1219.6</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low  Comments: #16/16

Events 2.2M Charge 14 C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~10 (μA)

# p(e,e'γ)p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/07/21  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.851</u> mm		<u>0.782</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.799</u> mm		<u>0.249</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.956 θ(TV): 28.34  
From GUI Nearest 0.005

θ(TV): 27.29  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator:

HMS: Large Sieve

NPS Sweep Magnet I = 468 Amp

NPS Upstream Corr. I = \_\_\_\_\_ Amp

NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number:

6106

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

11:33

Stop time (from RC):

11:55

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.7e6

hTRIG5 rate

1745.0

hTRIG3 rate

4584.4

hTRIG6 rate

361.3

hTRIG4 rate

919.7

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

#1/1

Events 1.1M  
Charge 7.2C

Active trigger LiveTime fraction (NPS Scaler Gui) ~99.9%

Max NPS anode current (single crystal) ~8 (μA)

Run Number:

6107

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC):

11:56

Stop time (from RC):

12:19

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.1e6

hTRIG5 rate

783.2

hTRIG3 rate

3105.5

hTRIG6 rate

191.6

hTRIG4 rate

640

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

#1/1

Events 700K  
Charge 1.9C

Active trigger LiveTime fraction (NPS Scaler Gui) ~99.8%

Max NPS anode current (single crystal) ~5.2 (μA)

Run Number:

6108

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

12:21

Stop time (from RC):

12:39

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.3e6

hTRIG5 rate

3232.9

hTRIG3 rate

6151.1

hTRIG6 rate

690.6

hTRIG4 rate

1245.4

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

#1/1

Events 550K  
Charge 7.2C

Active trigger LiveTime fraction (NPS Scaler Gui) ~98.37%

Max NPS anode current (single crystal) ~10 (μA)

Run Number:

I<sub>beam</sub>: \_\_\_\_\_ μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG5 rate

hTRIG3 rate

hTRIG6 rate

hTRIG4 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Target changed to LH2

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/07/21  
yy/mm/dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
1.848 mm		0.267 mm
Nomin:		Nomin:
3H07C	X	Y
0.743 mm		0.281 mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0 1.956 θ(TV): 28.34  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = --- Amp NPS Upstream Corr. I = --- Amp

Run Number: <u>6109</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:52</u> Stop time (from RC): <u>13:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2x10<sup>6</sup></u> hTRIG5 rate <u>1568.9</u>	hTRIG3 rate <u>3042.3</u> hTRIG6 rate <u>387</u>	hTRIG4 rate <u>720.0</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u># 1/8</u>	Events <u>1.3M</u> Charge <u>28C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>~ 99.95%</u>	Max NPS anode current (single crystal) <u>~ 11 (μA)</u>
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Run Number: <u>6110</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:37</u> Stop time (from RC): <u>14:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2x10<sup>6</sup></u> hTRIG5 rate <u>1509.6</u>	hTRIG3 rate <u>3022.3</u> hTRIG6 rate <u>403.9</u>	hTRIG4 rate <u>719.9</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u># 2/8</u>	Events <u>1.3M</u> Charge <u>28C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>~ 99.9%</u>	Max NPS anode current (single crystal) <u>~ 11 (μA)</u>
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Run Number: <u>6111</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:10</u> Stop time (from RC): <u>14:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2x10<sup>6</sup></u> hTRIG5 rate <u>1542.2</u>	hTRIG3 rate <u>2861.7</u> hTRIG6 rate <u>371.2</u>	hTRIG4 rate <u>719.6</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u># 3/8</u>	Events <u>1.3M</u> Charge <u>28C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>~ 100%</u>	Max NPS anode current (single crystal) <u>~ 11 (μA)</u>
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Run Number: <u>6112</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:44</u> Stop time (from RC): <u>15:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2x10<sup>6</sup></u> hTRIG5 rate <u>1524.5</u>	hTRIG3 rate <u>3061.5</u> hTRIG6 rate <u>407.3</u>	hTRIG4 rate <u>7463</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u># 4/8</u>	Events <u>1.3M</u> Charge <u>28C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>~ 99.9%</u>	Max NPS anode current (single crystal) <u>~ 11 (μA)</u>
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# p(e,e' $\gamma$ ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/21  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +1.956  $\theta$ (TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 27.79  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 11.24  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.851</u> mm		<u>0.265</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.748</u> mm		<u>0.339</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 6113  
E<sub>beam</sub>: 16  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i.

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 15:16  
Stop time (from RC): 15:47

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.2x10<sup>6</sup>  
hTRIG3 rate: 3056.9  
hTRIG4 rate: 713.5  
hTRIG5 rate: 1523.4  
hTRIG6 rate: 407.5

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: # 5/8 LH2

Events 1.35M Active trigger LiveTime fraction (NPS Scaler Gui) ~99.9%  
Charge 25.1C Max NPS anode current (single crystal) ~11 ( $\mu$ A)

Run Number: 6114  
E<sub>beam</sub>: 16  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i.

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 15:50  
Stop time (from RC): 16:22

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.22 M  
hTRIG3 rate: 3003  
hTRIG4 rate: 720  
hTRIG5 rate: 1503  
hTRIG6 rate: 393

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: # 6/8, LH2

Events 1.2M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Charge 26C Max NPS anode current (single crystal) 10.8 ( $\mu$ A)

← 16:22 controlled access for NPS chiller

Run Number: 6115  
E<sub>beam</sub>: 16  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i.

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 18:01  
Stop time (from RC): 18:31

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.2x10<sup>6</sup>  
hTRIG3 rate: 2893  
hTRIG4 rate: 716  
hTRIG5 rate: 1510  
hTRIG6 rate: 378

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: # 7/8, LH2  
first run after chiller problem

Events 1M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Charge 22.8C Max NPS anode current (single crystal) 11.1 ( $\mu$ A)

6115 Ended run to power cycle NPS (RC request)

Run Number: 6116  
E<sub>beam</sub>: 16  $\mu$ A

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i.

PS1: -1  
PS2: -1  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 18:36  
Stop time (from RC): 19:07

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.23x10<sup>6</sup>  
hTRIG3 rate: 3020  
hTRIG4 rate: 734  
hTRIG5 rate: 1509  
hTRIG6 rate: 384

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: # 8/8, LH2

Events 1.2M Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%  
Charge 26C Max NPS anode current (single crystal) 10.5 ( $\mu$ A)

# $p(e, e'\gamma)p$ Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/21  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36\_1**

$E_{beam}$ : 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.33</u> mm
Nomin:		Nomin:

**HMS**  
 $p$ : +0.1956  $\theta$ (TV): 28.34  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 27.79  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 11.49  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet  $I$  = 468 Amp  
NPS Upstream Corr.  $I$  = \_\_\_\_\_ Amp  
NPS Upstream Corr.  $I$  = \_\_\_\_\_ Amp

Run Number: <u>6117</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:08</u> Stop time (from RC): <u>19:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u><math>1.33 \times 10^6</math></u> hTRIG5 rate: <u>707</u>	hTRIG3 rate: <u>2256</u> hTRIG6 rate: <u>202</u>	hTRIG4 rate: <u>557</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 12  $\mu$ A, LH2  
Events 0.56M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Charge 12C Max NPS anode current (single crystal) 8.5 ( $\mu$ A)

Run Number: <u>6118</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:31</u> Stop time (from RC): <u>20:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u><math>0.8 \times 10^6</math></u> hTRIG5 rate: <u>320</u>	hTRIG3 rate: <u>1526</u> hTRIG6 rate: <u>98</u>	hTRIG4 rate: <u>365</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 8  $\mu$ A, LH2  
Events 0.66M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Charge 12.6C Max NPS anode current (single crystal) 5.2 ( $\mu$ A)

Run Number: <u>6120</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:13</u> Stop time (from RC): <u>20:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u><math>2.21 \times 10^6</math></u> hTRIG5 rate: <u>1668</u>	hTRIG3 rate: <u>3059</u> hTRIG6 rate: <u>395</u>	hTRIG4 rate: <u>735</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
coin\_sparse\_low   
Comments: 16  $\mu$ A, coin, LH2  
Events 0.5M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Charge C Max NPS anode current (single crystal) 11.0 ( $\mu$ A)

Run Number: <u>6121</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:39</u> Stop time (from RC): <u>21:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u><math>1.74 \times 10^6</math></u> hTRIG5 rate: <u>887</u>	hTRIG3 rate: <u>2230</u> hTRIG6 rate: <u>216</u>	hTRIG4 rate: <u>450</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse   
coin   
in\_sparse\_low   
Comments: 8  $\mu$ A, Dummy  
Events 0.7M Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Charge 12C Max NPS anode current (single crystal) 7.5 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/21  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0 1.956 θ(TV): 28.34  
From GUI Nearest 0.005

θ(TV): 27.79  
Nearest 0.005

θ = SHMS 11.49  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>6122</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:12</u> Stop time (from RC): <u>21:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.8x10<sup>6</sup></u> hTRIG5 rate: <u>928</u>	hTRIG3 rate: <u>2183</u> hTRIG6 rate: <u>229</u>	hTRIG4 rate: <u>466</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8µA, Dummy</u>	Events <u>777k</u> Charge <u>18C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) ( <u>µA</u> ): <u>13.0</u>
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Run Number: <u>6123</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:43</u> Stop time (from RC): <u>22:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.9x10<sup>6</sup></u> hTRIG5 rate: <u>937</u>	hTRIG3 rate: <u>2188</u> hTRIG6 rate: <u>211</u>	hTRIG4 rate: <u>448</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8µA, Dummy</u>	Events <u>958k</u> Charge <u>13C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) ( <u>µA</u> ): <u>13.1</u>
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Run Number: <u>6124</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:24</u> Stop time (from RC): <u>22:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.4x10<sup>6</sup></u> hTRIG5 rate: <u>3470</u>	hTRIG3 rate: <u>6144</u> hTRIG6 rate: <u>707</u>	hTRIG4 rate: <u>1227</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8µA, 1/16 LD2</u>	Events <u>2M</u> Charge <u>13.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) ( <u>µA</u> ): <u>9.5</u>
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Run Number: <u>6125</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:55</u> Stop time (from RC): <u>23:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.31x10<sup>6</sup></u> hTRIG5 rate: <u>3211</u>	hTRIG3 rate: <u>6024</u> hTRIG6 rate: <u>649</u>	hTRIG4 rate: <u>1215</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>8µA, 2/16 LD2</u>	Events <u>2M</u> Charge <u>13.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.9%</u>	Max NPS anode current (single crystal) ( <u>µA</u> ): <u>9.46</u>
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# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/21  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36\_1**

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS** 27.79

**NPS** 11.49

p: +0.1956 θ(TV): 28.34  
From GUI Nearest 0.005

θ(TV): 28.34  
Nearest 0.005

θ = SHMS 12.49  
-16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>6126</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:27</u> Stop time (from RC): <u>23:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3 x 10<sup>6</sup></u> hTRIG5 rate: <u>3426</u>	hTRIG3 rate: <u>6013</u> hTRIG6 rate: <u>703</u>	hTRIG4 rate: <u>1241</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 8 μA, 3/16 LD2  
Events 1.3m Charge 8.8mC Active trigger LiveTime fraction (NPS Scaler Gui) 99.9% Max NPS anode current (single crystal) 9.4 (μA)

Run Number: <u>6127</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:58</u> Stop time (from RC): <u>00:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3 e6</u> hTRIG5 rate: <u>3417</u>	hTRIG3 rate: <u>6103</u> hTRIG6 rate: <u>690</u>	hTRIG4 rate: <u>1204</u> <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 4/16  
Events \_\_\_\_\_ Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 9.16 (μA)

Run Number: <u>6128</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>00:56</u> Stop time (from RC): <u>1:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3 e6</u> hTRIG5 rate: <u>3407</u>	hTRIG3 rate: <u>6120</u> hTRIG6 rate: <u>686</u>	hTRIG4 rate: <u>1252</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 4/16  
Events 1.8m Charge 12mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 9.85 (μA)

Run Number: <u>6129</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>1:28</u> Stop time (from RC): <u>1:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3 e6</u> hTRIG5 rate: <u>3459</u>	hTRIG3 rate: <u>6109</u> hTRIG6 rate: <u>685</u>	hTRIG4 rate: <u>1223</u> <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 5/16  
Events 2.1m Charge 13.8mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 10.10 (μA)

# p(e,e'γ)p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/4/22  
yy mm dd

Initials: FC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36-1

E<sub>beam</sub>: 6.3 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle  
on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.26</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0 1.9 From GUI θ(TV): 28.3 Nearest 0.005

θ(TV): 27.79 Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

Collimator:

HMS: Large   
Sieve

NPS Sweep Magnet  
I = 468 Amp

NPS Upstream Corr.  
I = 0 Amp

NPS Upstream Corr.  
I = 0 Amp

Run Number:

6130

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l
- 

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC):

2:00

Stop time (from RC):

2:33

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
2.3e6

hTRIG3 rate  
6132

hTRIG4 rate  
1237

hTRIG5 rate  
3362

hTRIG6 rate  
688

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

6/16

Events 2.1m  
Charge 14.6mC

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
100

Max NPS anode current  
(single crystal)  
9.59 (μA)

Run Number:

6131

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l
- 

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC):

2:34

Stop time (from RC):

3:08

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
2.3e6

hTRIG3 rate  
6210

hTRIG4 rate  
1213

hTRIG5 rate  
3426

hTRIG6 rate  
668

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

7/16

Events 2.3m  
Charge 5mC

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
100

Max NPS anode current  
(single crystal)  
9.71 (μA)

Run Number:

6132

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l
- 

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC):

3:09

Stop time (from RC):

3:49

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
2.3e6

hTRIG3 rate  
6142

hTRIG4 rate  
1193

hTRIG5 rate  
3334

hTRIG6 rate  
710

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

8/16

Events 2.8m  
Charge 18mC

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
100

Max NPS anode current  
(single crystal)  
9.68 (μA)

Run Number:

6133

I<sub>beam</sub>: 8 μA

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l
- 

PS1: -  
PS2: -  
PS3: -  
PS4: 0  
PS5: -  
PS6: -

Start time (from RC):

3:51

Stop time (from RC):

4:30

- Settings Verified?
- HV OK?
- 50k OK?

hTRIG1 rate  
2.3e6

hTRIG3 rate  
6156

hTRIG4 rate  
1239

hTRIG5 rate  
3392

hTRIG6 rate  
662

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

9/16

Events 2.7m  
Charge 18mC

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
100

Max NPS anode current  
(single crystal)  
9.20 (μA)

# p(e,e'γ)p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/4/22  
yy mm dd

Initials: FC

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x36.1

E<sub>beam</sub>: 6.3 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u>	mm	<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u>	mm	<u>0.26</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- 1.9 θ(TV): 28.32  
From GUI Nearest 0.005

θ(TV): 27.74  
Nearest 0.005

θ = SHMS 11.24  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 4.68 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6134</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>4:31</u> Stop time (from RC): <u>5:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3189</u>	hTRIG3 rate: <u>6254</u> hTRIG6 rate: <u>650</u>	hTRIG4 rate: <u>1186</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>10/16</u>	Events <u>2m</u> Charge <u>13.3C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>9.71</u> (μA)
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Run Number: <u>6135</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>5:13</u> Stop time (from RC): <u>5:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3251</u>	hTRIG3 rate: <u>6209</u> hTRIG6 rate: <u>641</u>	hTRIG4 rate: <u>1214</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>11/16</u>	Events <u>2.25</u> Charge <u>15nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>9.71</u> (μA)
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Run Number: <u>6136</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>5:48</u> Stop time (from RC): <u>6:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3226</u>	hTRIG3 rate: <u>6129</u> hTRIG6 rate: <u>656</u>	hTRIG4 rate: <u>1190</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>12/16</u>	Events <u>2m</u> Charge <u>13nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>9.58</u> (μA)
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Run Number: <u>6137</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>6:24</u> Stop time (from RC): <u>7:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3159</u>	hTRIG3 rate: <u>6119</u> hTRIG6 rate: <u>661</u>	hTRIG4 rate: <u>1163</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>13/16</u>	Events <u>2.3m</u> Charge <u>15nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>9.60</u> (μA)
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# p(e,e'γ)p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/4/22  
 yy mm dd

Initials: FC

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 30**

E<sub>beam</sub>: 6.3 GeV

Raster:  On  Off  
 Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.26</u> mm
Nomin:		Nomin:

**HMS**  
 p: +0.119 <sup>-1.9</sup> θ(TV): 28-32  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 27.79  
Nearest 0.005

**NPS**  
 θ = SHMS 11.24  
 -16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve    
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>6138</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>7:01</u> Stop time (from RC): <u>7:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3521</u>	hTRIG3 rate: <u>6277</u> hTRIG6 rate: <u>727</u>	hTRIG4 rate: <u>1240</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>14/16</u>		Events <u>2.4m</u> Charge <u>16nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>9.81</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>6139</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>7:42</u> Stop time (from RC): <u>8:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>3472</u>	hTRIG3 rate: <u>6190</u> hTRIG6 rate: <u>711</u>	hTRIG4 rate: <u>1193</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>15/16</u>		Events <u>2m</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>9.94</u> (μA)		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>6140</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>8:13</u> Stop time (from RC): <u>8:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3e6</u> hTRIG5 rate: <u>43422</u>	hTRIG3 rate: <u>6073</u> hTRIG6 rate: <u>678</u>	hTRIG4 rate: <u>1222</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>16/16</u>		Events <u>2.1M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>9.96</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>6242</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:49</u> Stop time (from RC): <u>9:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.71e6</u> hTRIG5 rate: <u>1739</u>	hTRIG3 rate: <u>4547</u> hTRIG6 rate: <u>365</u>	hTRIG4 rate: <u>932</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>6</u> μA	Comments: <u>1 run 6 μA</u>		Events <u>976k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>7.44</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> in_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/05/22  
yy mm dd

Initials: A. Hough

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 36-1

E<sub>beam</sub>: 6.37 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>0</u> mm	<u>0</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0</u> mm	<u>0</u> mm	
Nomin:		Nomin:

**HMS**  
p: +0 19 From GUI θ(TV): 28.32 Nearest 0.005

**SHMS**  
θ(TV): 27.79 Nearest 0.005

**NPS**  
θ = SHMS 11.24 Nearest 0.005  
-16.30°

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 6142  
I<sub>beam</sub>: 4 μA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>9:15</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>1.16e6</u>	hTRIG3 rate: <u>3056</u>	hTRIG4 rate: <u>644.9</u>
<input checked="" type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>9:28</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>806</u>	hTRIG6 rate: <u>189</u>	<input type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: Chiller temp. problem  
Events 356k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) (μA)

Run Number: 6143  
I<sub>beam</sub>:      μA

<input type="checkbox"/> LH2 10cm	PS1: <u>    </u>	Start time (from RC): <u>12:23</u>	<input type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>    </u>	hTRIG3 rate: <u>    </u>	hTRIG4 rate: <u>    </u>
<input type="checkbox"/> LD2 10cm	PS2: <u>    </u>	Stop time (from RC): <u>12:32</u>	<input type="checkbox"/> HV OK?	hTRIG5 rate: <u>    </u>	hTRIG6 rate: <u>    </u>	<input type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>    </u>		<input type="checkbox"/> 50k OK?			<input checked="" type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>    </u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>    </u>					
<input type="checkbox"/>	PS6: <u>    </u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: test run  
Events 19k Charge C Active trigger LiveTime fraction (NPS Scaler Gui)      Max NPS anode current (single crystal) (μA)

Run Number: 6144  
I<sub>beam</sub>:      μA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>    </u>	<input type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>    </u>	hTRIG3 rate: <u>    </u>	hTRIG4 rate: <u>    </u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>    </u>	<input type="checkbox"/> HV OK?	hTRIG5 rate: <u>    </u>	hTRIG6 rate: <u>    </u>	<input type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: test run / Junk  
Events 2k Charge C Active trigger LiveTime fraction (NPS Scaler Gui)      Max NPS anode current (single crystal) (μA)

Run Number: 6145  
I<sub>beam</sub>:      μA

<input type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>14:04</u>	<input type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>399</u>	hTRIG3 rate: <u>42</u>	hTRIG4 rate: <u>    </u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>15:23</u>	<input type="checkbox"/> HV OK?	hTRIG5 rate: <u>    </u>	hTRIG6 rate: <u>    </u>	<input type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse  coin  in\_sparse\_low   
Comments: BCM calibration  
Events 192k Charge C Active trigger LiveTime fraction (NPS Scaler Gui)      Max NPS anode current (single crystal) (μA)

# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 29 04 22  
yy mm dd

Initials: EMM

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25-1

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 2.77 mm

**Purpose:**

- Production
- Test
- Optics
- Other: education  
DIS scan

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.734 From GUI  $\theta$ (TV): 75.13 Nearest 0.005

$\theta$ (TV): 37.47 Nearest 0.005

$\theta$  = SHMS 16.30 Nearest 0.005 2117

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6146</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:31</u> Stop time (from RC): <u>18:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>16.8</u> K hTRIG5 rate: <u>81.7</u>	hTRIG3 rate: <u>12.7</u> K hTRIG6 rate: <u>50.2</u>	hTRIG4 rate: <u>2.18</u> K <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>1.24</u> M Charge <u>83.6</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.69</u> ( $\mu$ A)
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Run Number: <u>6147</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:09</u> Stop time (from RC): <u>18:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>9.3</u> K hTRIG5 rate: <u>60.0</u>	hTRIG3 rate: <u>8.7</u> K hTRIG6 rate: <u>44.5</u>	hTRIG4 rate: <u>1.38</u> K <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>1.26</u> M Charge <u>7.6</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.7</u> ( $\mu$ A)
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Run Number: <u>6148</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:55</u> Stop time (from RC): <u>19:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>29</u> K hTRIG5 rate: <u>195.0</u>	hTRIG3 rate: <u>27.6</u> K hTRIG6 rate: <u>62.6</u>	hTRIG4 rate: <u>4.1</u> K <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>3.33</u> M Charge <u>5.9</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.67</u> ( $\mu$ A)
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Run Number: <u>6149</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:28</u> Stop time (from RC): <u>19:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>47.5</u> K hTRIG5 rate: <u>409</u>	hTRIG3 rate: <u>42.3</u> K hTRIG6 rate: <u>95</u>	hTRIG4 rate: <u>6.3</u> K <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments:	Events <u>3.04</u> M Charge <u>21.5</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.83</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24 04 2022  
 yy mm dd

Initials: mm

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25-1

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
 Size: 2x2 mm

**Purpose:**

- Production
- Test
- Optics
- Other: DIS scan

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.1734  $\theta$ (TV): 25.13  
From GUI Nearest 0.005

$\theta$ (TV): 37.47  
Nearest 0.005

$\theta$  = SHMS 21.17  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6180</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:08</u> Stop time (from RC): <u>20:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>13.5K</u> hTRIG5 rate: <u>73.2</u>	hTRIG3 rate: <u>10K</u> hTRIG6 rate: <u>44.5</u>	hTRIG4 rate: <u>1.7K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>1.43M</u> Charge <u>25.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>1606</u>	Max NPS anode current (single crystal) <u>0.65</u> ( $\mu$ A)
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Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/22  
yy mm dd

Initials: RMM

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25-1

E<sub>beam</sub>: 6.371 GeV

Raster:  On  Off  
Size: 202mm<sup>2</sup>

Purpose:

- Production  
 Test  
 Optics  
 Other: Electro

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.88</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.2639  $\theta$ (TV): 35.765  
From GUI Nearest 0.005

$\theta$ (TV): 37.47  
Nearest 0.005

$\theta$  = SHMS 21.17  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>6151</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>21:55</u> Stop time (from RC): <u>22:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>19.9K</u> hTRIG5 rate <u>84.4</u>	hTRIG3 rate <u>185.9</u> hTRIG6 rate <u>41.7</u>	hTRIG4 rate <u>52.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>151K</u> Charge <u>55.6C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.53</u> ( $\mu$ A)
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Run Number: <u>6152</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>22:35</u> Stop time (from RC): <u>23:05</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>26.5K</u> hTRIG5 rate <u>83.2</u>	hTRIG3 rate <u>222.2</u> hTRIG6 rate <u>42.7</u>	hTRIG4 rate <u>50.2</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>→ full replay done</u>	Events <u>144K</u> Charge <u>40C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.54</u> ( $\mu$ A)
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Run Number: <u>6153</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>23:11</u> Stop time (from RC): <u>23:42</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>37.2</u> hTRIG5 rate <u>97.9</u>	hTRIG3 rate <u>243.7</u> hTRIG6 rate <u>42.7</u>	hTRIG4 rate <u>53.4</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>SHMS: 36.17° NPS: 19.87° # 1/2 → full replay done</u>	Events <u>162K</u> Charge <u>43C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.93</u> ( $\mu$ A)
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Run Number: <u>6154</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>23:43</u> Stop time (from RC): <u>00:16</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>36.7K</u> hTRIG5 rate <u>89.1</u>	hTRIG3 rate <u>230</u> hTRIG6 rate <u>4.2</u>	hTRIG4 rate <u>49.9</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: <u># 2/2 → full replay done</u>	Events <u>172K</u> Charge <u>46C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>6.98</u> ( $\mu$ A)
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# p(e,e' $\gamma$ ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/23  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

Kinematics: KinC\_x 25-1

Purpose:  
 Production  
 Test  
 Optics  
 Other: He Elastic

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 6.37 cGeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

HMS  
 p: 2.639  $\theta$ (TV): 35.965  
From GUI Nearest 0.005

SHMS 34.865  
 ~~$\theta$ (TV): 34.865~~  
Nearest 0.005

NPS  
 $\theta$  = SHMS 18.565  
-16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.847</u> mm		<u>0.288</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.748</u> mm		<u>0.302</u> mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 0 Amp  
 NPS Upstream Corr. I =      Amp  
 NPS Upstream Corr. I =      Amp

Run Number: 6155  
 I<sub>beam</sub>: 25  $\mu$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1  
 Start time (from RC): 00:25  
 Stop time (from RC): 01:02  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 54K  
 hTRIG3 rate: 246.8  
 hTRIG4 rate: 51.9  
 hTRIG5 rate: 81.9  
 hTRIG6 rate: 42.9  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: SHMS: 34.865  
 NPS: 18.565 #1/2  
 Events 160K  
 Charge 44C  
 Active trigger LiveTime fraction (NPS Scaler Gui) ~100%  
 Max NPS anode current (single crystal) ~1 ( $\mu$ A)

Run Number: 6156  
 I<sub>beam</sub>: 25  $\mu$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1  
 Start time (from RC): 01:04  
 Stop time (from RC): 01:37  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 55290.1  
 hTRIG3 rate: 217.0  
 hTRIG4 rate: 48.9  
 hTRIG5 rate: 85.2  
 hTRIG6 rate: 42.0  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: #2/2 (full replay done)  
 Events 150K  
 Charge 44C  
 Active trigger LiveTime fraction (NPS Scaler Gui) ~100%  
 Max NPS anode current (single crystal) ~1 ( $\mu$ A)

Run Number: 6157  
 I<sub>beam</sub>: 25  $\mu$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1  
 Start time (from RC): 01:59  
 Stop time (from RC): 02:30  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 27283.9  
 hTRIG3 rate: 242  
 hTRIG4 rate: 50.9  
 hTRIG5 rate: 85.9  
 hTRIG6 rate: 44.2  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: SHMS: 34.865  
~~NPS: 18.565~~  
 NPS: 21.170 (Full replay done)  
 Events 151K  
 Charge 43C  
 Active trigger LiveTime fraction (NPS Scaler Gui) ~100%  
 Max NPS anode current (single crystal) ~1 ( $\mu$ A)

Run Number: 6158  
 I<sub>beam</sub>: 25  $\mu$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1  
 Start time (from RC): 02:31  
 Stop time (from RC): 03:02  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 28560.3  
 hTRIG3 rate: 247.2  
 hTRIG4 rate: 48.4  
 hTRIG5 rate: 81.4  
 hTRIG6 rate: 42.2  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: #2/2 (full replay done)  
 Events 150K  
 Charge 41C  
 Active trigger LiveTime fraction (NPS Scaler Gui) ~100%  
 Max NPS anode current (single crystal) ~1 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24, 04, 23  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x2S-1**

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: Elastic

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.851</u>	mm	<u>0.308</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.743</u>	mm	<u>0.293</u> mm
Nomin:		Nomin:

**HMS**  
p: 2.639 From GUI  
θ(TV): 35.965 Nearest 0.005

**SHMS**  
θ(TV): 36.170 Nearest 0.005

**NPS**  
θ = SHMS 19.870  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 0 Amp NPS Upstream Corr. I =      Amp NPS Upstream Corr. I =      Amp

Run Number: 6159  
I<sub>beam</sub>: 25 μA  
 LH2 10cm PS1: -1  
 LD2 10cm PS2: -1  
 Dummy 10cm PS3: -1  
 Optics#1 8cm PS4: -1  
 C 0.5% r.l.I PS5: 0  
 PS6: -1  
 Start time (from RC): 03:09  
 Stop time (from RC): 03:41  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 38923.9  
 hTRIG3 rate: 242.0  
 hTRIG4 rate: 47.9  
 hTRIG5 rate: 91.9  
 hTRIG6 rate: 42.5  
 Data ok  
 Junk

coin\_sparse  Comments: SHMS: 36.170 #1/2  
 coin  NPS: 19.870  
 coin\_sparse\_low   
 Events 161K Active trigger LiveTime fraction (NPS Scaler Gui) ~100%  
 Charge 41C Max NPS anode current (single crystal) ~1 (μA)

Run Number: 6160  
I<sub>beam</sub>: 25 μA  
 LH2 10cm PS1: -1  
 LD2 10cm PS2: -1  
 Dummy 10cm PS3: -1  
 Optics#1 8cm PS4: -1  
 C 0.5% r.l.I PS5: 0  
 PS6: -1  
 Start time (from RC): 03:42  
 Stop time (from RC): 04:16  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 38988.8  
 hTRIG3 rate: 222  
 hTRIG4 rate: 51.4  
 hTRIG5 rate: 90.6  
 hTRIG6 rate: 43.7  
 Data ok  
 Junk

coin\_sparse  Comments: #2/2  
 coin   
 coin\_sparse\_low   
 Events 168K Active trigger LiveTime fraction (NPS Scaler Gui) ~100%  
 Charge 43C Max NPS anode current (single crystal) ~1 (μA)

Run Number: 6161  
I<sub>beam</sub>: 25 μA  
 LH2 10cm PS1: -1  
 LD2 10cm PS2: -1  
 Dummy 10cm PS3: -1  
 Optics#1 8cm PS4: -1  
 C 0.5% r.l.I PS5: 0  
 PS6: -1  
 Start time (from RC): 4:22  
 Stop time (from RC): 4:57  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 48685.6  
 hTRIG3 rate: 241.2  
 hTRIG4 rate: 52.5  
 hTRIG5 rate: 78.7  
 hTRIG6 rate: 41.5  
 Data ok  
 Junk

coin\_sparse  Comments: SHMS: 34.865 #1/2  
 coin  NPS: 18.565  
 coin\_sparse\_low   
 Events 167K Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Charge 25C Max NPS anode current (single crystal) ~1 (μA)

Run Number: 6162  
I<sub>beam</sub>: 25 μA  
 LH2 10cm PS1: -1  
 LD2 10cm PS2: -1  
 Dummy 10cm PS3: -1  
 Optics#1 8cm PS4: -1  
 C 0.5% r.l.I PS5: 0  
 PS6: -1  
 Start time (from RC): 4:58  
 Stop time (from RC): 5:31  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 56135.5  
 hTRIG3 rate: 240.7  
 hTRIG4 rate: 50.2  
 hTRIG5 rate: 87.2  
 hTRIG6 rate: 42.7  
 Data ok  
 Junk

coin\_sparse  Comments: #2/2  
 coin   
 coin\_sparse\_low   
 Events 153K Active trigger LiveTime fraction (NPS Scaler Gui) ~100%  
 Charge 25C Max NPS anode current (single crystal) ~1 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/23  
yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x25-1**

E<sub>beam</sub>: 6370 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: Elastic

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
1.858	mm	0.296 mm
Nomin:		Nomin:
3H07C	X	Y
0.747	mm	0.304 mm
Nomin:		Nomin:

**HMS**  
p: 2.639 θ(TV): 35.965  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 37.470  
Nearest 0.005

**NPS**  
θ = SHMS 21.170  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I =      Amp  
NPS Upstream Corr. I =      Amp  
NPS Upstream Corr. I =      Amp

Run Number: 6163  
I<sub>beam</sub>: 25 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 5:37  
Stop time (from RC): 6:04

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 28711.3 hTRIG3 rate: 241.2 hTRIG4 rate: 52.2  
hTRIG5 rate: 87.7 hTRIG6 rate: 41.5

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: SHMS = 37.470 #1/2  
NPS = 21.170

Events 125k Charge 25mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) ~1 (μA)

↳ 20 min run (beam on time)

Run Number: 6164  
I<sub>beam</sub>: 25 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 6:13  
Stop time (from RC): 6:50

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 28691.3 hTRIG3 rate: 233 hTRIG4 rate: 49.2  
hTRIG5 rate: 80.9 hTRIG6 rate: 42.2

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: #2/2

Events 176k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~1 (μA)

Run Number: 6165  
I<sub>beam</sub>: 25 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 6:56  
Stop time (from RC): 7:28

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 40082.1 hTRIG3 rate: 238.2 hTRIG4 rate: 50.7  
hTRIG5 rate: 90.4 hTRIG6 rate: 42.5

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: SHMS = 36.170 #1/2  
NPS = 19.870

Events 162k Charge 42mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) ~1 (μA)

Run Number: 6166  
I<sub>beam</sub>: 25 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.i

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 7:29  
Stop time (from RC): 8:01

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 40030.6 hTRIG3 rate: 234.2 hTRIG4 rate: 49.4  
hTRIG5 rate: 84.7 hTRIG6 rate: 42.2

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: #2/2

Events 171k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~1 (μA)

# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/23  
yy mm dd

Initials: MT

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 25-1

E<sub>beam</sub>: 6.370 GeV

Raster:  On  Off  
Size: 2x2

Purpose:  
 Production  
 Test  
 Optics  
 Other: Elastic

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

**HMS**  
p: 2.639 θ(TV): 35.965  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 34.865  
Nearest 0.005

**NPS**  
θ = SHMS 18.565  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I =      Amp NPS Upstream Corr. I =      Amp NPS Upstream Corr. I =      Amp

Run Number: 6167  
I<sub>beam</sub>: 25 μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 08:10 Stop time (from RC): 08:33  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 55163 hTRIG3 rate: 227 hTRIG4 rate: 50.7  
 hTRIG5 rate: 80 hTRIG6 rate: 41.4  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: SHMS = 34.865 # 1/2  
NPS = 18.565  
 Events 111k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 1 (μA)

Run Number: 6168  
I<sub>beam</sub>: 25 μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1: -2 PS2: -2 PS3: -2 PS4: -2 PS5: 0 PS6: -2  
 Start time (from RC): 08:36 Stop time (from RC): 08:54  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 57654 hTRIG3 rate: 232 hTRIG4 rate: 52.2  
 hTRIG5 rate: 82.7 hTRIG6 rate: 43.0  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments:       
 Events 82k Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 1 (μA)

Run Number: 6169  
I<sub>beam</sub>:      μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1:      PS2:      PS3:      PS4:      PS5:      PS6:       
 Start time (from RC):      Stop time (from RC):       
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate:      hTRIG3 rate:      hTRIG4 rate:       
 hTRIG5 rate:      hTRIG6 rate:       
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: junk  
 Events      Charge C Active trigger LiveTime fraction (NPS Scaler Gui)      Max NPS anode current (single crystal)      (μA)

Run Number: 6170  
I<sub>beam</sub>:      μA  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l.  
 PS1:      PS2:      PS3:      PS4:      PS5:      PS6:       
 Start time (from RC):      Stop time (from RC):       
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate:      hTRIG3 rate:      hTRIG4 rate:       
 hTRIG5 rate:      hTRIG6 rate:       
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: junk  
 Events      Charge C Active trigger LiveTime fraction (NPS Scaler Gui)      Max NPS anode current (single crystal)      (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/24  
yy mm dd

Initials: MTJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

- Purpose:**
- Production
  - Test
  - Optics
  - Other: Elastic

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 8.458 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: 3.615 θ(TV): 30.775  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 36.26  
Nearest 0.005

**NPS**  
θ = SHMS 19.96  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.799</u> mm		<u>0.311</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.706</u> mm		<u>0.309</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I =      Amp NPS Upstream Corr. I =      Amp NPS Upstream Corr. I =      Amp

**Run Number:** 6171  
I<sub>beam</sub>: 20 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 04:44  
Stop time (from RC): 05:17

Settings Verified?  HV OK?  25k OK?  50k OK?

hTRIG1 rate: 42398.5 hTRIG3 rate: 63.4 hTRIG4 rate: 8.1  
hTRIG5 rate: 10.9 hTRIG6 rate: 5.9

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: SHMS = 36.265 #1/2  
NPS = 19.715

Events 25K Charge 33 C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~1 (μA)

**Run Number:** 6172  
I<sub>beam</sub>: 18 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 05:19  
Stop time (from RC): 05:52

Settings Verified?  HV OK?  25k OK?  50k OK?

hTRIG1 rate: 43056.4 hTRIG3 rate: 66.4 hTRIG4 rate: 9.9  
hTRIG5 rate: 12.3 hTRIG6 rate: 5.4

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: # 2/2

Events 22K Charge 27 C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~1 (μA)

**Run Number:** 6173  
I<sub>beam</sub>: 19 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 05:58  
Stop time (from RC): 06:33

Settings Verified?  HV OK?  25k OK?  50k OK?

hTRIG1 rate: 54777.4 hTRIG3 rate: 70.6 hTRIG4 rate: 9.4  
hTRIG5 rate: 13.6 hTRIG6 rate: 6.1

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: SHMS = 35.060 #1/2  
NPS = 18.510

Events 25K Charge 30 C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~1 (μA)

**Run Number:** 6174  
I<sub>beam</sub>: 19 μA

LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.

PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 06:35  
Stop time (from RC): 07:08

Settings Verified?  HV OK?  25k OK?  50k OK?

hTRIG1 rate: 55074.2 hTRIG3 rate: 67.2 hTRIG4 rate: 11.1  
hTRIG5 rate: 13.3 hTRIG6 rate: 6.7

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: # 2/2

Events 25K Charge 30 C Active trigger LiveTime fraction (NPS Scaler Gui) ~100% Max NPS anode current (single crystal) ~1 (μA)

# p(e,e'γ)p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/24  
 yy mm dd

Initials: MJ

Use a separate sheet for each configuration.

Kinematics: KinC\_x

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
 Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: Elastic

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: 3.615 θ(TV): 30.775  
 From GUI Nearest 0.005

θ(TV): 33.855  
 Nearest 0.005

θ = SHMS 17.305  
 -16.30° Nearest 0.005

Collimator:

HMS: Large Sieve

NPS Sweep Magnet I = OFF Amp

NPS Upstream Corr. I =      Amp

NPS Upstream Corr. I =      Amp

Run Number:

6175

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1

Start time (from RC):

07:16

Stop time (from RC):

07:49

Settings Verified?

HV OK?

25k OK?

50k OK?

hTRIG1 rate

77041.9

hTRIG3 rate

65.7

hTRIG4 rate

11.1

hTRIG5 rate

14.6

hTRIG6 rate

6.2

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

SHMS = 33.855 #1/2  
NPS = 17.305

Events 24K

Charge 33C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

1 (μA)

Run Number:

6176

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1

Start time (from RC):

07:50

Stop time (from RC):

8:21

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

74124.4

hTRIG3 rate

66.8

hTRIG4 rate

9.7

hTRIG5 rate

13.7

hTRIG6 rate

6.1

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

# 2/2

Events 21.6K

Charge 28.1C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

1 (μA)

Run Number:

6177

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1

Start time (from RC):

8:28

Stop time (from RC):

9:00

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

39.2 kHz

hTRIG3 rate

68.9 Hz

hTRIG4 rate

8.2 Hz

hTRIG5 rate

13.6 Hz

hTRIG6 rate

6.4 Hz

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

SHMS = 36.262 #1/2 (2nd cycle)

Events 22.4K

Charge 27.6C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

1.08 (μA)

Run Number:

6178

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: -1  
 PS5: 0  
 PS6: -1

Start time (from RC):

9:38

Stop time (from RC):

10:01

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

71.6 kHz

hTRIG3 rate

85.5 Hz

hTRIG4 rate

11.9 Hz

hTRIG5 rate

19.5 Hz

hTRIG6 rate

7.4 Hz

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

SHMS = 35.06 1/2 2nd cycle

Events 22.7K

Charge 30.2C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

1.5 (μA)



# p(e,e'γ)p Run Sheet

hallcweb.llab.org/wiki/Index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/21  
yy mm dd

Initials: Gasket

Use a separate sheet for each configuration.

Kinematics: KinC\_x

Elastic (4 pass)

E<sub>beam</sub>: 8.458 GeV

Raster:  On  Off  
Size: 2x2

Purpose:

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.85</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +3.615 From GUI θ(TV): 30.765 Nearest 0.005

θ(TV): 33.855 Nearest 0.005

θ = SHMS 17.555 Nearest 0.005  
-16.30°

Collimator:

HMS: Large Sieve

NPS Sweep Magnet I = 0 Amp

NPS Upstream Corr. I = 0 Amp

NPS Upstream Corr. I = 0 Amp

Run Number:

6179

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

11:44

Stop time (from RC):

12:15

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.7 · 10<sup>5</sup>

hTRIG3 rate

123

hTRIG4 rate

10.5

hTRIG5 rate

18

hTRIG6 rate

8.5

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: θ<sub>SHMS</sub> = 33.855°  
1/2 2nd cycle

Events 26.4  
Charge 60 C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 1.4 (μA)

Run Number:

6180

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

12:19

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

196 kHz

hTRIG3 rate

136 Hz

hTRIG4 rate

14.3 kHz

hTRIG5 rate

24.5 Hz

hTRIG6 rate

6.6 Hz

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: θ<sub>SHMS</sub> = 33.855°  
updated HV

Events 48k  
Charge 73 C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 1.6 (μA)

Run Number:

6181

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

196 kHz

hTRIG3 rate

136 Hz

hTRIG4 rate

14.3

hTRIG5 rate

24.5 Hz

hTRIG6 rate

6.6 Hz

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Junk - Beam off

Events \_\_\_\_\_  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) \_\_\_\_\_ (μA)

Run Number:

6182

- LH2 10cm
- LD2 10cm
- Dummy 10cm
- Optics#1 8cm
- C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

13:22

Stop time (from RC):

14:07

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.26 e6

hTRIG3 rate

126

hTRIG4 rate

12.4

hTRIG5 rate

24.5

hTRIG6 rate

8.4

Data ok

Junk

coin\_sparse   
oin   
oin\_sparse\_low

Comments: θ<sub>SHMS</sub> = 35.06°  
updated HV

Events 57k  
Charge 24 C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 1.2 (μA)

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheet\_dvcs\_NPS.pdf

Date: 24/04/24  
yy mm dd

Initials: Gaskell

Use a separate sheet for each configuration.

Kinematics: KinG\_x

Elastic (4 pass)

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
Size: \_\_\_\_\_

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field,  
current OK?

yes  no

Beam position and angle  
on target:

3H07A	X	Y
<u>1.05</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p<sup>+</sup> 3.615 θ(TV): 30.765  
From GUI Nearest 0.005

θ(TV): 35.26  
Nearest 0.005

θ = SHMS  
-16.30°  
Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = φ Amp NPS Upstream Corr. I = φ Amp NPS Upstream Corr. I = φ Amp

Run Number:

6183

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -1  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

14:13

Stop time (from RC):

14:57

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
91 kHz

hTRIG3 rate  
118 kHz

hTRIG4 rate  
13.4 kHz

hTRIG5 rate  
21.1 kHz

hTRIG6 rate  
6.5 kHz

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: θ<sub>SHMS</sub> = 36.26°  
NPS HV

Events 46.9  
Charge 71 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal) (μA)  
1

Run Number:

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number:

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number:

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)



# p(e,e'γ) p Run Sheet

hallweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/04/24  
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-2**

E<sub>beam</sub>: 8.458 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.20</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +03.8050(TV): 22.84  
From GUI Nearest 0.005

θ(TV): 32.86  
Nearest 0.005

θ = SHMS 16.56  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 462 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>6185</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:01</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.82x10<sup>6</sup></u>	hTRIG3 rate <u>873</u>	hTRIG4 rate <u>567</u>
I <sub>beam</sub> : <u>30</u> μA	Comments: <u>1/8 LH2</u>			Events <u>702K</u> Charge <u>2.86</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>98.3%</u>	Max NPS anode current (single crystal) <u>9.42</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>6186</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:33</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate —	hTRIG3 rate —	hTRIG4 rate —
I <sub>beam</sub> : <u>0</u> μA	Comments: <u>Junk, Beam off at 17:33</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) —	Max NPS anode current (single crystal) — (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	

Run Number: <u>6187</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:02</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>8.6 x 10<sup>5</sup></u>	hTRIG3 rate <u>564.5</u>	hTRIG4 rate <u>378.5</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>2/8 LH2 50% 20μA</u>			Events <u>732K</u> Charge <u>26.46</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.79</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>6188</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:35</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.79 x 10<sup>6</sup></u>	hTRIG3 rate <u>862.0</u>	hTRIG4 rate <u>567.5</u>
I <sub>beam</sub> : <u>30</u> μA	Comments: <u>3/8 LH2</u>			Events <u>102M</u> Charge <u>5.48</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>94.08%</u>	Max NPS anode current (single crystal) <u>8.97</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

# p(e,e'γ) p Run Sheet

hallcweb.jlab.org/wiki/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 24/10/24  
yy mm dd

Initials: H.M

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-2**

**Purpose:**

- Production
- Test
- Optics
- Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 8.45 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +0.3205 θ(TV): 22.94  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 32.86  
Nearest 0.005

**NPS**  
θ = SHMS 16.56  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.80</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 4.68 Amp NPS Upstream Corr. I = — Amp NPS Upstream Corr. I = — Amp

Run Number: <u>6189</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:08</u> Stop time (from RC): <u>19:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.73x10<sup>6</sup></u> hTRIG3 rate <u>841</u> hTRIG4 rate <u>566</u> hTRIG5 rate <u>378</u> hTRIG6 rate <u>283</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 4/8, LH2 beam off last 10 min  
Events 350 K Charge 15.8 C Active trigger LiveTime fraction (NPS Scaler Gui) 99.9% Max NPS anode current (single crystal) 8.7 (μA)

Run Number: <u>6190</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:58</u> Stop time (from RC): <u>20:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.78x10<sup>6</sup></u> hTRIG3 rate <u>860</u> hTRIG4 rate <u>574</u> hTRIG5 rate <u>378</u> hTRIG6 rate <u>264</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 5/8, LH2  
Events 302 K Charge 15.8 C Active trigger LiveTime fraction (NPS Scaler Gui) 99.9% Max NPS anode current (single crystal) 8.9 (μA)

Run Number: <u>6191</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:29</u> Stop time (from RC): <u>20:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.75x10<sup>6</sup></u> hTRIG3 rate <u>837</u> hTRIG4 rate <u>569</u> hTRIG5 rate <u>370</u> hTRIG6 rate <u>252</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 6/8, LH2  
Events 297 K Charge 15.8 C Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 8.7 (μA)

Run Number: <u>6192</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:00</u> Stop time (from RC): <u>21:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.74x10<sup>6</sup></u> hTRIG3 rate <u>875</u> hTRIG4 rate <u>561</u> hTRIG5 rate <u>350</u> hTRIG6 rate <u>250</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: 7/8, LH2 Ended run, beam OFF at 21:20  
Events 318 K Charge 17.6 C Active trigger LiveTime fraction (NPS Scaler Gui) 99.9% Max NPS anode current (single crystal) 8.6 (μA)