

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

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

Date: 23/11/02  
yy mm dd

Initials: EF

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x60-9

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : 10.542 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
 $p$ : +/- 0.5052  $\theta$ (TV): 19.31  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 31.39  
Nearest 0.005

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

3H07A	X	Y
<u>169</u> mm		<u>0.309</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.312</u> mm		<u>0.300</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: <u>2516, 17, 18</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>0</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 type="checkbox"/> Junk
$I_{beam}$ : <u>30</u> $\mu A$	Comments: <u>Junk</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		

Run Number: <u>2520, 42</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>0</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 type="checkbox"/> Junk
$I_{beam}$ : <u>30</u> $\mu A$	Comments: <u>JUNK.</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		

Run Number: <u>2523</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	hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : _____ $\mu A$	Comments: <u>JUNK</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		

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.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	hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : _____ $\mu A$	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') p Run Sheet

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

Date: 23/11/07  
yy mm dd

Initials: EE

Use a separate sheet for each configuration.

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

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u> mm		<u>0.303</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.412</u> mm		<u>0.300</u> mm
Nomin:		Nomin:

**HMS**

p: +05.253  $\theta$ (TV): 16.912  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 30.090  
Nearest 0.005

**NPS**

$\theta$  = SHMS 14.39  
-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>2524</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>2:26 2845</u> Stop time (from RC): <u>3:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>237.10°</u> hTRIG5 rate <u>2301</u>	hTRIG3 rate <u>4038</u> hTRIG6 rate <u>1675</u>	hTRIG4 rate <u>2910</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments: <u>check WME2,3</u> <u>~52 min effective beam time</u>		Events <u>699 M</u> Charge <u>46.30 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.764</u>	Max NPS anode current (single crystal) <u>8.01</u> ( $\mu$ A)		

Run Number: <u>2525</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>3:45</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>1.48.10°</u> hTRIG5 rate <u>1334</u>	hTRIG3 rate <u>4132</u> hTRIG6 rate <u>933</u>	hTRIG4 rate <u>2953</u> <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments: <u>JUNK</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.67</u>	Max NPS anode current (single crystal) <u>8.59</u> ( $\mu$ A)		

Run Number: <u>2526</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>3:58</u> Stop 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>236.10°</u> hTRIG5 rate <u>2240</u>	hTRIG3 rate <u>4134</u> hTRIG6 rate <u>1610</u>	hTRIG4 rate <u>2894</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments: <u>rates still 1600 at end of run</u> <u>~52 min effective beam</u>		Events <u>499 M</u> Charge <u>44.2 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.956</u>	Max NPS anode current (single crystal) <u>8.56</u> ( $\mu$ A)		

Run Number: <u>2527</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>4:58</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>2.35eb</u> hTRIG5 rate <u>2256</u>	hTRIG3 rate <u>4101</u> hTRIG6 rate <u>1610</u>	hTRIG4 rate <u>2785</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments: <u>~57 min effective beam</u>		Events <u>548 M</u> Charge <u>49.2 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.785</u>	Max NPS anode current (single crystal) <u>8.17</u> ( $\mu$ A)		

# p(e,e') p Run Sheet

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Date: 23/11/02  
yy mm dd

Initials: EF

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-4**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.54 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**

**SHMS**

**NPS**

p: +05.253  $\theta$ (TV): 16.912  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 488 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>2528</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>6:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.34e<sup>6</sup></u>	hTRIG3 rate <u>4091</u>	hTRIG4 rate <u>2900</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>6:53</u>		hTRIG5 rate <u>2279</u>	hTRIG6 rate <u>1822</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>41 min effective beam</u>		Events <u>4904</u> Charge <u>362</u> nC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.889%</u>	Max NPS anode current (single crystal) <u>8.22</u> ( $\mu$ A)		

Run Number: <u>2529</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>6:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.35e<sup>6</sup></u>	hTRIG3 rate <u>4076</u>	hTRIG4 rate <u>2932</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>7:55</u>		hTRIG5 rate <u>2284</u>	hTRIG6 rate <u>1595</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>52 min effective beam</u>		Events <u>4931</u> Charge <u>44.7</u> nC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.829%</u>	Max NPS anode current (single crystal) <u>8.24</u> ( $\mu$ A)		

Run Number: <u>2530</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.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>7:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.87 MHz</u>	hTRIG3 rate <u>2760</u>	hTRIG4 rate <u>1911</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>8:22</u>		hTRIG5 rate <u>1160</u>	hTRIG6 rate <u>846</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>10278</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.91%</u>	Max NPS anode current (single crystal) <u>5.20</u> ( $\mu$ A)		

Run Number: <u>2531</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>8:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>994 kHz</u>	hTRIG3 rate <u>1343</u>	hTRIG4 rate <u>1009</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A			Stop time (from RC): <u>8:45</u>		hTRIG5 rate <u>345</u>	hTRIG6 rate <u>252</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>3262</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.76</u> ( $\mu$ A)		

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

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

Date: 23/10/2  
yy mm dd

Initials: MD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-3**

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 7x2

Beam position and angle on target:

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

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

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

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	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>2532</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>8:48</u> Stop time (from RC): <u>9:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.33 MHz</u>	hTRIG3 rate <u>3977</u>	hTRIG4 rate <u>2848</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:		Events <u>1500</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.84</u> ( $\mu$ A)		

coin\_sparse  coin  coin\_sparse\_low

Run Number: <u>2533</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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
I <sub>beam</sub> : <u>5</u> $\mu$ A	Comments:		Events _____ Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal)		

coin\_sparse  coin  coin\_sparse\_low

Run Number: <u>2534</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>9:18</u> Stop time (from RC): <u>9:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.16 MHz</u>	hTRIG3 rate <u>1400</u>	hTRIG4 rate <u>985</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A	Comments:		Events _____ Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal)		

coin\_sparse  coin  coin\_sparse\_low

Run Number: <u>2535</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>2</u>	Start time (from RC): <u>9:43</u> Stop time (from RC): <u>9:44</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>15</u> $\mu$ A	Comments:		Events _____ Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal)		

coin\_sparse  coin  coin\_sparse\_low

Comments: Data rate 125 MB/s

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

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Date: 23 / 11 / 2  
yy mm dd

Initials: MD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-3

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 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): 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.69  
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>2536</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3</u>	Start time (from RC): <u>9:45</u> Stop time (from RC): <u>9:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.22 MHz</u>	hTRIG3 rate <u>4067</u>	hTRIG4 rate <u>2909</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:			Events <u>1918</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.21</u> ( $\mu$ A)	
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>2537</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>0</u>	Start time (from RC): <u>10:09</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>2.15 MHz</u>	hTRIG3 rate <u>3725</u>	hTRIG4 rate <u>2549</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments: <u>Trigger T6 stopped at end of run whereas beam on target</u>			Events <u>668</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.678</u>	Max NPS anode current (single crystal) <u>20</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>2538</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>0</u>	Start time (from RC): <u>10:39</u> Stop time (from RC): <u>10:58</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>1600</u>	hTRIG4 rate <u>1088</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:			Events <u>698</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.34</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>2539</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>0</u>	Start time (from RC): <u>11:01</u> Stop time (from RC): <u>12:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1 MHz</u>	hTRIG3 rate <u>3717</u>	hTRIG4 rate <u>2817</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments:			Events <u>4640</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.42%</u>	Max NPS anode current (single crystal) <u>11.24</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: 23/11/2  
yy mm dd

Initials: MD

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-4

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 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:

2540

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

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

Start time (from RC):  
12:06

Stop time (from RC):  
12:48

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

hTRIG1 rate  
2.17MHz

hTRIG3 rate  
3726

hTRIG4 rate  
2784

I<sub>beam</sub>: 36  $\mu$ A

hTRIG5 rate  
1784

hTRIG6 rate  
1330

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Run Badly ended Triggers stopped being delivered

Events 200k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.72%

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

Run Number:

2541

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

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

Start time (from RC):  
12:51

Stop time (from RC):  
13:24

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

hTRIG1 rate  
2.17MHz

hTRIG3 rate  
3706

hTRIG4 rate  
2761

I<sub>beam</sub>: 36  $\mu$ A

hTRIG5 rate  
1806

hTRIG6 rate  
1309

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 240k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.77%

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

Run Number:

2542

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

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

Start time (from RC):  
13:30

Stop time (from RC):  
13:54

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

hTRIG1 rate  
150kHz

hTRIG3 rate  
547

hTRIG4 rate  
434

I<sub>beam</sub>: 5  $\mu$ A

hTRIG5 rate  
87

hTRIG6 rate  
56

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Sweeping magnet OFF JUNK

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2543

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

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

Start time (from RC):  
13:58

Stop time (from RC):  
14:10

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

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

I<sub>beam</sub>: 5  $\mu$ A

hTRIG5 rate

hTRIG6 rate

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: JUNK Missing 3/4 of NPS

Events 40k  
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: 23/11/9  
yy mm dd

Initials: MD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 50-3

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: \_\_\_\_\_

Beam position and angle on target:

**HMS**  
p: +/- \_\_\_\_\_  $\theta$ (TV): 6.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): -30.69  
Nearest 0.005

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

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	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>2544</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: _____ 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 _____	hTRIG5 rate _____ hTRIG6 rate _____	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>5</u> $\mu$ A							

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Sweeping OFF</u> <u>Issue DAQ</u> <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>2545</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>14:22</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>357 kHz</u> hTRIG3 rate <u>566</u> hTRIG4 rate <u>440</u>	hTRIG5 rate <u>105</u> hTRIG6 rate <u>90</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>5</u> $\mu$ A							

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Sweeping OFF</u>	Events <u>310</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) _____ $\mu$ A
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Run Number: <u>2546</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>15:30</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>300 kHz</u> hTRIG3 rate <u>541</u> hTRIG4 rate <u>417</u>	hTRIG5 rate <u>93</u> hTRIG6 rate <u>81</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>5</u> $\mu$ A							

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Sweeping ON</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.69</u> $\mu$ A
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Run Number: <u>2547</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>16:32</u> Stop 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>1.59 MHz</u> hTRIG3 rate <u>2.5 kHz</u> hTRIG4 rate <u>1.9 kHz</u>	hTRIG5 rate <u>1 kHz</u> hTRIG6 rate <u>0.7 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>24</u> $\mu$ A							

coin_sparse <input checked="" type="checkbox"/> oin <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

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

Date: 23/11/02  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-3**

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2 x 2

Beam position and angle on target:

**HMS**  
p: +/- \_\_\_\_\_ θ(TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
θ(TV): -30.69  
Nearest 0.005

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

3H07A	X	Y
<u>1.69</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 = 458 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

<b>Run Number:</b> <u>2548</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% rl.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: <u>0</u>	Start time (from RC): <u>16:51</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.9 MHz</u> hTRIG5 rate <u>0.2 kHz</u>	hTRIG3 rate <u>1.3 kHz</u> hTRIG6 rate <u>0.2 kHz</u>	hTRIG4 rate <u>1 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>285K</u> Charge <u>C</u> Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u> Max NPS anode current (single crystal) <u>3.67 (μA)</u>
<b>coin_sparse</b> <input checked="" type="checkbox"/> <b>coin</b> <input type="checkbox"/> <b>coin_sparse_low</b> <input type="checkbox"/>	Comments: _____							

<b>Run Number:</b> <u>2549</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% rl.l	PS1: _____ PS2: _____ PS3: <u>1</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>17:16</u> Stop time (from RC): <u>17:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1 MHz</u> hTRIG5 rate <u>2.8 kHz</u>	hTRIG3 rate <u>3.7 kHz</u> hTRIG6 rate <u>1.8 kHz</u>	hTRIG4 rate <u>2.8 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>1795K</u> Charge <u>C</u> Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u> Max NPS anode current (single crystal) <u>10.78 (μA)</u>
<b>coin_sparse</b> <input checked="" type="checkbox"/> <b>coin</b> <input type="checkbox"/> <b>coin_sparse_low</b> <input type="checkbox"/>	Comments: _____							

<b>Run Number:</b> <u>2550</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% rl.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: <u>0</u>	Start time (from RC): <u>17:43</u> Stop time (from RC): <u>18:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5 MHz</u> hTRIG5 rate <u>440 Hz</u>	hTRIG3 rate <u>1.2 kHz</u> hTRIG6 rate <u>397 Hz</u>	hTRIG4 rate <u>1 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>448K</u> Charge <u>C</u> Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u> Max NPS anode current (single crystal) <u>3.22 (μA)</u>
<b>coin_sparse</b> <input type="checkbox"/> <b>coin</b> <input type="checkbox"/> <b>coin_sparse_low</b> <input checked="" type="checkbox"/>	Comments: _____							

<b>Run Number:</b> <u>2551</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% rl.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: <u>2</u>	Start time (from RC): <u>18:09</u> Stop time (from RC): <u>18:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.93 MHz</u> hTRIG5 rate <u>1.7 kHz</u>	hTRIG3 rate <u>3.7 kHz</u> hTRIG6 rate <u>1.3 kHz</u>	hTRIG4 rate <u>2.8 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>255K</u> Charge <u>C</u> Active trigger LiveTime fraction (NPS Scaler Gui) <u>93.9%</u> Max NPS anode current (single crystal) <u>10.8 (μA)</u>
<b>coin_sparse</b> <input type="checkbox"/> <b>coin</b> <input checked="" type="checkbox"/> <b>coin_sparse_low</b> <input type="checkbox"/>	Comments: _____							



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

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

Date: 23 / 11 / 02  
 yy mm dd

Initials: PD

Use a separate sheet for each configuration.

Kinematics: KinC\_x\_50-3

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 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  
 p: +/- \_\_\_\_\_  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): -30.69  
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 = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>2552</u>	<input type="checkbox"/> LH2 10cm <input 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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>18:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 MHz</u>	hTRIG3 rate <u>4.1 kHz</u>	hTRIG4 rate <u>2.9 kHz</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>19:27</u>		hTRIG5 rate <u>2.2 kHz</u>	hTRIG6 rate <u>1.6 kHz</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>4878</u> k Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>7.57</u> ( $\mu$ A)		

Run Number: <u>2553</u>	<input type="checkbox"/> LH2 10cm <input 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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>19:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.32 MHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>2.8 kHz</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>20:30</u>		hTRIG5 rate <u>2.2 kHz</u>	hTRIG6 rate <u>1.6 kHz</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>5355</u> k Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>7.56</u> ( $\mu$ A)		

Run Number: <u>2554</u>	<input type="checkbox"/> LH2 10cm <input 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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>20:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 MHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>2.9 kHz</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>21:36</u>		hTRIG5 rate <u>2.2 kHz</u>	hTRIG6 rate <u>1.6 kHz</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>+ Bray Moffit updated the name CODA config file at the beginning of this run</u>		Events <u>5732</u> k Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>7.42</u> ( $\mu$ A)		

+ Chandan fixed the loose connection in ribbon cable which at the middle of this run which brought back DSUM and EDTM rates in the scaler GUI and data stream.

Run Number: <u>2555</u>	<input type="checkbox"/> LH2 10cm <input 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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>21:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 MHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>2.8 kHz</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>22:38</u>		hTRIG5 rate <u>2.1 kHz</u>	hTRIG6 rate <u>1.5 kHz</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:		Events <u>4814</u> k Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>7.38</u> ( $\mu$ A)		

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

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

Date: 23/11/02  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50.3

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.54 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

SHMS

NPS

$\theta$ : +/- \_\_\_\_\_  $\theta(TV)$ : 16.91  
From GUI Nearest 0.005

$\theta(TV)$ : -30.69  
Nearest 0.005

$\theta$  = SHMS -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>2556</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>22:39</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>2.3 MHz</u> hTRIG5 rate: <u>2.1 kHz</u>	hTRIG3 rate: <u>4 kHz</u> hTRIG6 rate: <u>1.5 kHz</u>	hTRIG4 rate: <u>2.8 kHz</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>5563K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>7.32 (μA)</u>
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Run Number: <u>2557</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>23:43</u> Stop time (from RC): <u>00:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.8 MHz</u> hTRIG5 rate: <u>1.1 kHz</u>	hTRIG3 rate: <u>2.6 kHz</u> hTRIG6 rate: <u>787 Hz</u>	hTRIG4 rate: <u>1.9 kHz</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 _____ Charge <u>4mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>5.02 (μA)</u>
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Run Number: <u>2558</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>00:10</u> Stop time (from RC): <u>00:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.95 MHz</u> hTRIG5 rate: <u>0.33 kHz</u>	hTRIG3 rate: <u>1.37 kHz</u> hTRIG6 rate: <u>0.261 kHz</u>	hTRIG4 rate: <u>0.98 kHz</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>395K</u> Charge <u>7.6mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>1.98 (μA)</u>
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Run Number: <u>2559</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	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>00:40</u> Stop time (from RC): <u>01:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.33 MHz</u> hTRIG5 rate: <u>0.58 kHz</u>	hTRIG3 rate: <u>1.87 kHz</u> hTRIG6 rate: <u>0.45 kHz</u>	hTRIG4 rate: <u>1.32 kHz</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>Started at 5mA and increased to 7mA</u>	Events <u>502K</u> 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: 23 / 11 / 03  
yy mm dd

Initials: MN

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-3

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

HMS, field, current OK?  
 yes  no

$E_{beam}$ : 10.537 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 $p$ : +/- 16.91  $\theta(TV)$ : \_\_\_\_\_  
From GUI Nearest 0.005

**SHMS**  
 $\theta(TV)$ : 30.69  
Nearest 0.005

**NPS**  
 $\theta$  = **SHMS** 14.39  
-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  $I =$  46.1 Amp  
 NPS Upstream Corr.  $I =$  \_\_\_\_\_ Amp  
 NPS Upstream Corr.  $I =$  \_\_\_\_\_ Amp

Run Number: <u>2560</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>01:30</u> Stop time (from RC): <u>01:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.16 MHz</u> hTRIG3 rate: <u>2.70 kHz</u> hTRIG4 rate: <u>1.92 kHz</u>	hTRIG5 rate: <u>0.7 kHz</u> hTRIG6 rate: <u>0.5 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>5</u> $\mu A$	Comments: <u>Started @ 5MA, moved to 10 MA</u>		Events <u>620k</u> Charge <u>11 MC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.8%</u>	Max NPS anode current (single crystal): <u>6.7</u> ( $\mu A$ )		

Run Number: <u>2561</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3</u>	Start time (from RC): <u>01:56</u> Stop time (from RC): <u>02:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.17 MHz</u> hTRIG3 rate: <u>4.14 kHz</u> hTRIG4 rate: <u>2.92 kHz</u>	hTRIG5 rate: <u>2.00 kHz</u> hTRIG6 rate: <u>1.50 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>15</u> $\mu A$	Comments:		Events <u>220k</u> Charge <u>11 MC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>~100%</u>	Max NPS anode current (single crystal): <u>7.14</u> ( $\mu A$ )		

Run Number: <u>2562</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>0</u>	Start time (from RC): <u>02:24</u> Stop time (from RC): <u>02:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.14 MHz</u> hTRIG3 rate: <u>3.8 kHz</u> hTRIG4 rate: <u>2.50 kHz</u>	hTRIG5 rate: <u>1.80 kHz</u> hTRIG6 rate: <u>1.17 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>36</u> $\mu A$	Comments: <u>Data Rate = 60,000 KByte/sec</u>		Events <u>368k</u> Charge <u>24 MC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal): <u>18.6</u> ( $\mu A$ )		

Run Number: <u>2563</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>0</u>	Start time (from RC): <u>02:41</u> Stop time (from RC): <u>02:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.95 MHz</u> hTRIG3 rate: <u>1.59 kHz</u> hTRIG4 rate: <u>1.10 kHz</u>	hTRIG5 rate: <u>0.378 kHz</u> hTRIG6 rate: <u>0.267 kHz</u>	<input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk OK
$I_{beam}$ : <u>15</u> $\mu A$	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>7.31</u> ( $\mu A$ )		

# p(e,e') p Run Sheet

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

Date: 23 / 11 / 03  
 yy mm dd

Initials: LUN

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-3

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.537 GeV

Raster:  On  Off  
 Size: 2x

Beam position and angle on target:

**HMS**  
 p: +5.25  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.69  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.39  
 -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 = 467.9 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>2564</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>03:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.06 MHz</u>	hTRIG3 rate <u>3.75 kHz</u>	hTRIG4 rate <u>2.80 kHz</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments:		Stop time (from RC): <u>04:11</u>		hTRIG5 rate <u>1.8 kHz</u>	hTRIG6 rate <u>1.34 kHz</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>4905</u> K Charge <u>126</u> mC		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>10.13</u>			

Run Number: <u>2565</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>04:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.08 MHz</u>	hTRIG3 rate <u>3.76 kHz</u>	hTRIG4 rate <u>2.77 kHz</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments:		Stop time (from RC): <u>05:12</u>		hTRIG5 rate <u>1.85 kHz</u>	hTRIG6 rate <u>1.36 kHz</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>2835</u> K Charge <u>72</u> mC		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>9.44</u>			

Run Number: <u>2566</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>05:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.09 MHz</u>	hTRIG3 rate <u>3.78 kHz</u>	hTRIG4 rate <u>2.80 kHz</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments:		Stop time (from RC): <u>05:40</u>		hTRIG5 rate <u>1.75 kHz</u>	hTRIG6 rate <u>1.34 kHz</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>1690</u> K Charge <u>43</u> mC		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>10.02</u>			

Run Number: <u>2567</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>05:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.51 MHz</u>	hTRIG3 rate <u>2.54 MHz</u>	hTRIG4 rate <u>1.90 kHz</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A	Comments:		Stop time (from RC): <u>06:04</u>		hTRIG5 rate <u>0.898 kHz</u>	hTRIG6 rate <u>0.655 kHz</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>826</u> K Charge <u>28</u> mC		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>6.95</u>			

# p(e,e') p Run Sheet

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

Date: 23 / 11 / 03  
 yy mm dd

Initials: UN

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50.3

**Purpose:**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.537 GeV

Raster:  On  Off  
 Size: \_\_\_\_\_

Beam position and angle on target:

**HMS**  
 p: +05.25  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.69  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.39  
 -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 = 467.9 Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>2568</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>0</u>	Start time (from RC): <u>06:05</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>0.761 MHz</u>	hTRIG3 rate <u>1.22 kHz</u>	hTRIG4 rate <u>0.960 kHz</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments:		Stop time (from RC): <u>06:42</u>		hTRIG5 rate <u>0.261 kHz</u>	hTRIG6 rate <u>0.205 kHz</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>234 K</u> Charge <u>12 mC</u>		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>3.17</u>			

Run Number: <u>2569</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>06:44</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments: <u>Junk</u>		Stop time (from RC): <u>06:47</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"/>	Events _____ Charge _____ C		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	Data Rate: <u>150 MByte/sec</u>		

Run Number: <u>2570</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>06:48</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.26 MHz</u>	hTRIG3 rate <u>2.09 kHz</u>	hTRIG4 rate <u>1.53 kHz</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>07:31</u>		hTRIG5 rate <u>1.58 kHz</u>	hTRIG6 rate <u>0.491 kHz</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"/>	Events <u>4815 K</u> Charge <u>43 mC</u>		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>5.77</u>			

Run Number: <u>2571</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>0</u>	Start time (from RC): <u>07:36</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.44 MHz</u>	hTRIG3 rate <u>1.31 kHz</u>	hTRIG4 rate <u>0.99 kHz</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments:		Stop time (from RC): <u>07:57</u>		hTRIG5 rate <u>0.420 kHz</u>	hTRIG6 rate <u>0.346 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>	Events <u>1621 K</u> Charge <u>14 mC</u>		Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>3.41</u>			

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

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

Date: <sup>23</sup> 11 / 03  
yy mm dd

Initials: MW

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 50.3

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.587 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**  
p: +0.25  $\theta$ (TV): 16.9  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.69  
Nearest 0.005

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

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 46.7 Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>2572</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>3</u>	Start time (from RC): <u>08:01</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>139</u>	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments:			Events <u>1418</u> Charge <u>8.8 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>2573</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>8:27</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>2314 Hz</u>	hTRIG3 rate <u>3953</u>	hTRIG4 rate <u>2830</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:			Events <u>2988</u> Charge <u>27.8 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.83</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>7.13</u>	
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>2574</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
I <sub>beam</sub> : _____ $\mu$ A	Comments: <u>JUNK</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>2575</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>9:39</u> Stop time (from RC): <u>12:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>15.4 Hz</u>	hTRIG3 rate <u>60.9</u>	hTRIG4 rate <u>60.9</u>
I <sub>beam</sub> : <u>0</u> $\mu$ A	Comments: <u>No Beam</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>0.9</u>	
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'γ) p Run Sheet

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

Date: 23 / 11 / 3  
 yy mm dd

Initials: MD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 50-3

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

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

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

**NPS**  
 θ = **SHMS**  
-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 = 968 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>2576</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>12:45</u> Stop time (from RC): <u>13:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.37MHz</u> hTRIG5 rate: <u>2153</u>	hTRIG3 rate: <u>3898</u> hTRIG6 rate: <u>1518</u>	hTRIG4 rate: <u>2822</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> μA	Comments:		Events <u>4388</u> Charge <u>4090</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.785%</u>	Max NPS anode current (single crystal): <u>7.2</u> (μA)		

Run Number: <u>2577</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>13:47</u> Stop time (from RC): <u>14:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.37MHz</u> hTRIG5 rate: <u>2156</u>	hTRIG3 rate: <u>4075</u> hTRIG6 rate: <u>1555</u>	hTRIG4 rate: <u>2876</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> μA	Comments:		Events <u>4142</u> Charge <u>3820</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.82%</u>	Max NPS anode current (single crystal): <u>7.35</u> (μA)		

Run Number: <u>2578</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): Stop time (from RC):	<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 type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> μA	Comments: <u>JUNK</u>		Events _____ Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		

Run Number: <u>2580</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>14:57</u> Stop time (from RC): <u>16:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.37MHz</u> hTRIG5 rate: <u>2124</u>	hTRIG3 rate: <u>4010</u> hTRIG6 rate: <u>1500</u>	hTRIG4 rate: <u>2821</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> μA	Comments:		Events <u>3300</u> Charge <u>3700</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.78%</u>	Max NPS anode current (single crystal): <u>7</u> (μA)		

# p(e,e'γ) p Run Sheet

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

Date: 23/11/03  
yy mm dd

Initials: RD

Use a separate sheet for each configuration.

Kinematics: KinC\_x × 50 4

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

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

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

NPS  
 θ = SHMS -16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:
3H07C	X	Y
<u>0.2</u> mm	<u>0.3</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>2581</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l <input type="checkbox"/> _____	PS1: <u>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>16:08</u> Stop time (from RC): <u>17:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9 MHz</u>	hTRIG3 rate: <u>4 kHz</u>	hTRIG4 rate: <u>2.8 kHz</u>	
I <sub>beam</sub> : <u>15</u> μA	Comments: <u>HWP IN</u>			Events <u>5140K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.7%</u>	Max NPS anode current (single crystal) <u>7.2</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>2582</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l <input type="checkbox"/> _____	PS1: <u>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>17:11</u> Stop time (from RC): <u>18:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.3 MHz</u>	hTRIG3 rate: <u>3.0 kHz</u>	hTRIG4 rate: <u>2.8 kHz</u>	
I <sub>beam</sub> : <u>15</u> μA	Comments: _____			Events <u>4163K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>6.97</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		

Run Number: <u>2583</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l <input type="checkbox"/> _____	PS1: <u>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>18:19</u> Stop time (from RC): <u>18:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.8 MHz</u>	hTRIG3 rate: <u>2.6 kHz</u>	hTRIG4 rate: <u>1.9 kHz</u>	
I <sub>beam</sub> : <u>10</u> μA	Comments: _____			Events <u>355K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	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 type="checkbox"/> Junk		

Run Number: <u>2584</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l <input type="checkbox"/> _____	PS1: <u>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>18:41</u> Stop time (from RC): <u>19:03</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>1.4 kHz</u>	hTRIG4 rate: <u>1 kHz</u>	
I <sub>beam</sub> : <u>5</u> μA	Comments: _____			Events <u>329K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>2.25</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:Runsheet\_dvcs\_NPS.pdf

Date:    /   /    Initials:    

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50\_4**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

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

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

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

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	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>2585</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>+</u> PS2: <u>+</u> 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 _____	hTRIG5 rate _____ hTRIG6 rate _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : _____ μA	Comments: <u>JUNK</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>2586</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>2</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>19:06</u> Stop time (from RC): <u>19:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 MHz</u> hTRIG3 rate <u>3.9 kHz</u> hTRIG4 rate <u>2.8 kHz</u>	hTRIG5 rate <u>2.1 kHz</u> hTRIG6 rate <u>1.5 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>1.5</u> μA	Comments: _____		Events <u>1530K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>6.81</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>2587</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>19:28</u> Stop time (from RC): <u>20:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8 MHz</u> hTRIG3 rate <u>2.7 kHz</u> hTRIG4 rate <u>1.8 kHz</u>	hTRIG5 rate <u>1 kHz</u> hTRIG6 rate <u>760 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments: _____		Events <u>4478K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.55</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>2588</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>20:12</u> Stop time (from RC): <u>20:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8 MHz</u> hTRIG3 rate <u>1.4 kHz</u> hTRIG4 rate <u>1 kHz</u>	hTRIG5 rate <u>407 Hz</u> hTRIG6 rate <u>296 Hz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>5</u> μA	Comments: _____		Events <u>375K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>2.74</u> (μA)		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>							

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

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

Date: 23/11/03  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-4**

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

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

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

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

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

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

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

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

Run Number: 2589  
 I<sub>beam</sub>: \_\_\_\_\_  $\mu$ A  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.i.  
 PS1: \_\_\_\_\_ PS2: \_\_\_\_\_ PS3: \_\_\_\_\_ PS4: \_\_\_\_\_ PS5: \_\_\_\_\_ PS6: 0  
 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  
checking for ideal prescale  
 Events \_\_\_\_\_ Charge \_\_\_\_\_ C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) \_\_\_\_\_  $\mu$ A

Run Number: 2590  
 I<sub>beam</sub>: \_\_\_\_\_  $\mu$ A  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.i.  
 PS1: \_\_\_\_\_ PS2: \_\_\_\_\_ PS3: \_\_\_\_\_ PS4: \_\_\_\_\_ PS5: \_\_\_\_\_ PS6: 2  
 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  
Looking for ideal prescale factor  
 Events \_\_\_\_\_ Charge \_\_\_\_\_ C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) \_\_\_\_\_  $\mu$ A

Run Number: 2591  
 I<sub>beam</sub>: 15  $\mu$ A  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.i.  
 PS1: + PS2: + PS3: + PS4: + PS5: + PS6: 3  
 Start time (from RC): 20:40 Stop time (from RC): 20:52  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate 2.2 MHz hTRIG3 rate 3.9 kHz hTRIG4 rate 2.8 kHz  
 hTRIG5 rate 2 kHz hTRIG6 rate 1.5 kHz  
 Data ok  Junk  
 coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
 Events 193k Charge \_\_\_\_\_ C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 7.09  $\mu$ A

Run Number: 2592  
 I<sub>beam</sub>: 36  $\mu$ A  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.i.  
 PS1: + PS2: + PS3: + PS4: + PS5: + PS6: 0  
 Start time (from RC): 21:01 Stop time (from RC): 21:17  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate 2.1 MHz hTRIG3 rate 3.7 kHz hTRIG4 rate 2.5 kHz  
 hTRIG5 rate 1.8 kHz hTRIG6 rate 1.3 kHz  
 Data ok  Junk  
 coin\_sparse  coin  coin\_sparse\_low   
 Comments: several beam trips  
 Events 678k Charge \_\_\_\_\_ C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%  
 Max NPS anode current (single crystal) 17.98  $\mu$ A

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

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

Date: 23 / 11 / 03  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

Kinematics: KinC\_x50-4

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.53 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 = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number:

2593

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

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

Start time (from RC):  
21:18

Stop time (from RC):  
21:29

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

hTRIG1 rate  
1.1 MHz

hTRIG3 rate  
1.9 kHz

hTRIG4 rate  
1.3 kHz

hTRIG5 rate  
496 Hz

hTRIG6 rate  
356 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 236K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
9.05 (uA)

Run Number:

2594

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

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

Start time (from RC):  
21:38

Stop time (from RC):  
22:46

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

hTRIG1 rate  
1 MHz

hTRIG3 rate  
1.8 kHz

hTRIG4 rate  
1.4 kHz

hTRIG5 rate  
520 Hz

hTRIG6 rate  
407 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 409K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
5.06 (uA)

Run Number:

2595

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

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

Start time (from RC):  
22:47

Stop time (from RC):  
23:14

- 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: DAR got stuck!

Events 630K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
(uA)

Run Number:

2596

- 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 (DAR ISSUE)

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
(uA)

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 04  
 yy mm dd

Initials: MM

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>: \_\_\_\_\_ GeV

Raster:  On  Off  
Size: \_\_\_\_\_

Beam position and angle on target:

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

HMS

SHMS

NPS

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

θ(TV): \_\_\_\_\_  
Nearest 0.005

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:

2597

- 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

I<sub>beam</sub>: \_\_\_\_\_ μA

coin\_sparse   
coin   
coin\_sparse\_low

Comments: JUNK (DAD ISSUE)

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number:

2598

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

PS1: 7  
PS2: 7  
PS3: 7  
PS4: 7  
PS5: 7  
PS6: 0

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

I<sub>beam</sub>: 36 μA

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4.2M  
Charge 176C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number:

2599

- 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: 0

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

I<sub>beam</sub>: 24 μA

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 766k  
Charge 254C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number:

2600

- 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: 0

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

I<sub>beam</sub>: 12 μA

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 328k  
Charge 579C

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: 23 11 104  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-4'

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.53 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.70	mm	0.29
Nomin:	1.70	Nomin: 0.30
3H07C	X	Y
0.68	mm	0.38
Nomin:	0.70	Nomin: 0.80

HMS

SHMS

NPS

p: +0.525 From GUI  $\theta$ (TV): 16.91 Nearest 0.005

$\theta$ (TV): 30.69 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: 2601	<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: 0 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 02:07 Stop time (from RC): 02:31	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.3 MHz hTRIG5 rate: 650 Hz	hTRIG3 rate: 2.0 kHz hTRIG6 rate: 470 Hz	hTRIG4 rate: 1.6 kHz <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 20 $\mu$ A	Comments:		Events: 2.6M Charge: 23.7C	Active trigger LiveTime fraction (NPS Scaler Gui): N/A	Max NPS anode current (single crystal) (μA): 5.38		

Run Number: 2602	<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): 02:35 Stop time (from RC): 03:18	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.6 MHz hTRIG5 rate: 900 Hz	hTRIG3 rate: 2.5 kHz hTRIG6 rate: 670 Hz	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 25 $\mu$ A	Comments:		Events: 4.6M Charge: 51.6C	Active trigger LiveTime fraction (NPS Scaler Gui): N/A	Max NPS anode current (single crystal) (μA): 6.51		

Run Number: 2603	<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: -1 PS5: -1 PS6: 0	Start time (from RC): 03:22 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: 1.4 MHz hTRIG5 rate: 440 Hz	hTRIG3 rate: 1.3 kHz hTRIG6 rate: 350 Hz	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 12 $\mu$ A	Comments:		Events: 4.3k Charge: 4.1μC	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal) (μA): 3.49		

Run Number: 2604	<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: -1 PS5: -1 PS6: 3	Start time (from RC): 03:48 Stop time (from RC): 03:52	<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: _____	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : 36 $\mu$ A	Comments: Junk - Beam tripped right away; and MCL isn't sure when it will be back		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:Runsheet\_dvcs\_NPS.pdf

Date: 23 / 11 / 10  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-4'

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
	<u>1.69</u> mm	<u>306</u> mm
Nomin:	<u>1.7</u>	<u>3</u>
3H07C	X	Y
	<u>1875</u> mm	<u>278</u> mm
Nomin:	<u>7</u>	<u>3</u>

**HMS**  
p: +5.253 θ(TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.69  
Nearest 0.005

**NPS**  
θ = **SHMS** 14.39  
**-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>2605</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>3</u>	Start time (from RC): <u>8:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.95 MHz</u>	hTRIG3 rate <u>3708</u>	hTRIG4 rate <u>2795</u>
I <sub>beam</sub> : <u>36</u> μA			Stop time (from RC): <u>8:50</u>		hTRIG5 rate <u>1629</u>	hTRIG6 rate <u>1275</u>	<input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk <sup>↑ success</sup>

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>only 1 minute of beam</u>	Events <u>1681C</u> Charge <u>3.6 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.04</u> (μA)
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Run Number: <u>2606</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>3</u>	Start time (from RC): <u>9:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.9 MHz</u>	hTRIG3 rate <u>3.7k</u>	hTRIG4 rate <u>2.7k</u>
I <sub>beam</sub> : <u>36</u> μA			Stop time (from RC): <u>9:46</u>		hTRIG5 rate <u>1.7k</u>	hTRIG6 rate <u>1.3k</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>31x<sup>+</sup> pmt 11 lowTDC occup.</u>	Events <u>582k</u> Charge <u>24 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>10.73</u> (μA)
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Run Number: <u>2607</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</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>2.3 MHz</u>	hTRIG3 rate <u>3.9k</u>	hTRIG4 rate <u>2.9k</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC): <u>11:27</u>		hTRIG5 rate <u>2.1k</u>	hTRIG6 rate <u>1.5k</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>kind Seg # 14 start of run COIN SPARSE 1st say coin, weamp</u>	Events <u>7.85M</u> Charge <u>51.8 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>7.11</u> (μA)
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Run Number: <u>2608</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>11:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3M</u>	hTRIG3 rate <u>4.0k</u>	hTRIG4 rate <u>2.9k</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC): <u>12:38</u>		hTRIG5 rate <u>2.17k</u>	hTRIG6 rate <u>1.6k</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>FINAL Seg # 14</u>	Events <u>5.7M</u> Charge <u>51.7 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.88%</u>	Max NPS anode current (single crystal) <u>7.20</u> (μA)
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# $p(e, e'\gamma) p$ Run Sheet

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

Date: 23 / 11 / 04  
yy mm dd

Initials: ERK

Use a separate sheet for each configuration.

**Kinematics: KinC x 50-4'**

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.54 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u> mm	<u>1.284</u> mm	
Nomin: <u>1.7</u>	Nomin: <u>1.3</u>	
3H07C	X	Y
<u>1.73</u> mm	<u>1.30</u> mm	
Nomin: <u>1.7</u>	Nomin: <u>1.3</u>	

HMS

SHMS

NPS

$p$ : +05.253 From GUI  $\theta$ (TV): 14.91 Nearest 0.005

$\theta$ (TV): 30.69 Nearest 0.005

$\theta$  = SHMS 14.39 Nearest 0.005  
**-16.30°**

Collimator:

HMS: Large  Sieve

NPS Sweep Magnet  $I = \underline{168}$  Amp

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

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

Run Number:

2610

- 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: 0

Start time (from RC):

12:47

Stop time (from RC):

13:02

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.3M

hTRIG3 rate

4.0k

hTRIG4 rate

2.9k

hTRIG5 rate

2.2k

hTRIG6 rate

1.5k

Data ok?

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: (New pad stack worked)  
Fin  
Seg # 3, scalars not correct  
→ reset code

Events 1.1M  
Charge 0.9C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.88

Max NPS anode current (single crystal) 7.05 ( $\mu$ A)

Run Number:

2611

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

PS1: -1  
PS2: 7  
PS3: 7  
PS4: -1  
PS5: 7  
PS6: 0

Start time (from RC):

13:06

Stop time (from RC):

14:25

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.3M

hTRIG3 rate

4.0k

hTRIG4 rate

2.9k

hTRIG5 rate

2.2k

hTRIG6 rate

1.5k

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final  
Seg # 15

Events 6.0M  
Charge 4.5C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.82%

Max NPS anode current (single crystal) 6.9 ( $\mu$ A)

Run Number:

2612

- 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: 0

Start time (from RC):

14:27

Stop time (from RC):

15:07

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.3M

hTRIG3 rate

4.0k

hTRIG4 rate

2.8k

hTRIG5 rate

2.2k

hTRIG6 rate

1.6k

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final Seg # 9

Events 3.5M  
Charge 32.3 mC

Active trigger LiveTime fraction (NPS Scaler Gui) ~~99.88~~ 99.4

Max NPS anode current (single crystal) ~~7.05~~ 7.2 ( $\mu$ A)

Run Number:

2613

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

PS1: -1  
PS2: 7  
PS3: -1  
PS4: -1  
PS5: -1  
PS6: 0

Start time (from RC):

15:08

Stop time (from RC):

16:13

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.3M

hTRIG3 rate

4.0k

hTRIG4 rate

2.8k

hTRIG5 rate

2.0k

hTRIG6 rate

1.5k

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final Seg # 13

Events \_\_\_\_\_  
Charge 49.58

Active trigger LiveTime fraction (NPS Scaler Gui) 99.82

Max NPS anode current (single crystal) 6.96 ( $\mu$ A)

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

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

Date: 23/11/04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC<sub>x</sub><sup>50</sup>-4**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.539 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.67 mm		0.3 mm
Nomin:		Nomin:
3H07C	X	Y
0.697 mm		0.30 mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +05.25  $\theta$ (TV): 1691.  
From GUI Nearest 0.005

$\theta$ (TV): -30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-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:**

2614

I<sub>beam</sub>: 10  $\mu$ 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: 0

Start time (from RC): 16:15  
Stop time (from RC): 16:39

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

hTRIG1 rate: 1.78x10<sup>6</sup>  
hTRIG5 rate: 1053.5

hTRIG3 rate: 2608  
hTRIG6 rate: 870

hTRIG4 rate: 1950  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final seq #2

Events 1.07  
Charge 12.89

Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%

Max NPS anode current (single crystal) 4.78 ( $\mu$ A)

**Run Number:**

2615

I<sub>beam</sub>: 5  $\mu$ 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: 0

Start time (from RC): 16:41  
Stop time (from RC): 17:04

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

hTRIG1 rate: 9.4x10<sup>5</sup>  
hTRIG5 rate: 311

hTRIG3 rate: 1323  
hTRIG6 rate: 235

hTRIG4 rate: 966  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final seq # 0

Events 0.327  
Charge 6.38

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 2.09 ( $\mu$ A)

**Run Number:**

2616

I<sub>beam</sub>: 7  $\mu$ 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: 0

Start time (from RC): 17:05  
Stop time (from RC): 17:10

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

hTRIG1 rate: 1.3x10<sup>6</sup>  
hTRIG5 rate: 610

hTRIG3 rate: 1850  
hTRIG6 rate: 435

hTRIG4 rate: 1340  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final seq # 0 (taken mistakenly by PS6=0)

Events 0.110  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.8%

Max NPS anode current (single crystal) 3.19 ( $\mu$ A)

**Run Number:**

2617

I<sub>beam</sub>: 7  $\mu$ A

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

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

Start time (from RC): 17:11  
Stop time (from RC): 17:33

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

hTRIG1 rate: 1.35x10<sup>6</sup>  
hTRIG5 rate: 560

hTRIG3 rate: 1909  
hTRIG6 rate: 440

hTRIG4 rate: 1362  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: seq = 2

Events 2.12M  
Charge 7.48C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.6

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: 23 / 11 / 04  
yy mm dd

Initials: E-G

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-4'**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.538 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.67</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.697</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.525  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.89  
Nearest 0.005

$\theta$  = SHMS 14.39  
-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:

2618

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

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:

2619

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

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:

final seg # 8

Events 4.6M  
Charge 22.69 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2620

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

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

DAQ error

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2621

I<sub>beam</sub>: 5  $\mu$ 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: 0

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:

Final seg # 1

Events 0.38  
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: 23 / 11 / 04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-4'

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.539 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

SHMS

NPS

$p$ : +/- 5.25  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet  $I$  = 4.8 Amp NPS Upstream Corr.  $I$  = 0.8 Amp NPS Upstream Corr.  $I$  = 0.8 Amp

Run Number: <u>2622</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3</u>	Start time (from RC): <u>18:55</u> Stop 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>2.16x10<sup>3</sup></u> hTRIG5 rate: <u>1900</u>	hTRIG3 rate: <u>3950</u> hTRIG6 rate: <u>1400</u>	hTRIG4 rate: <u>2730</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Final seq # 2</u>	Events <u>0.2M</u> Charge <u>10.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>6.56</u> ( $\mu$ A)
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Run Number: <u>2623</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>0</u>	Start time (from RC): <u>19:18</u> Stop time (from RC): <u>19:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.13x10<sup>6</sup></u> hTRIG5 rate: <u>1800</u>	hTRIG3 rate: <u>3790</u> hTRIG6 rate: <u>1170</u>	hTRIG4 rate: <u>2450</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>Final seq # 1</u>	Events <u>0.8M</u> Charge <u>23.4C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>17.28</u> ( $\mu$ A)
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Run Number: <u>2624</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>0</u>	Start time (from RC): <u>19:46</u> Stop time (from RC): <u>19:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.44x10<sup>6</sup></u> hTRIG5 rate: <u>500</u>	hTRIG3 rate: <u>1850</u> hTRIG6 rate: <u>345</u>	hTRIG4 rate: <u>1260</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>Final seq # 0</u>	Events <u>0.2M</u> Charge <u>10.15C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>8.57</u> ( $\mu$ A)
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Run Number: <u>2625</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>0</u>	Start time (from RC): <u>20:05</u> Stop time (from RC): <u>21:14</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.17x10<sup>6</sup></u> hTRIG5 rate: <u>520</u>	hTRIG3 rate: <u>1901</u> hTRIG6 rate: <u>405</u>	hTRIG4 rate: <u>1370</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>First 15 min was ~18 <math>\mu</math>A. Trigger was for 18 <math>\mu</math>A.</u> <u>Final seq #</u>	Events <u>3.7M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.60</u> ( $\mu$ A)
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# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 50.4

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.539 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**  
p: + 5.25 θ(TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.69  
Nearest 0.005

**NPS**  
θ = SHMS 14.39  
-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>2626</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>0</u>	Start time (from RC): <u>21:15</u> Stop time (from RC): <u>22:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.6x10<sup>6</sup></u>	hTRIG3 rate <u>3770</u>	hTRIG4 rate <u>2800</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>36</u> μA	Comments:			Events <u>4.99</u> Charge <u>129.61 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9</u>	Max NPS anode current (single crystal) <u>9.38</u> (μA)		

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: Final segment # 11

Run Number: <u>2627</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>0</u>	Start time (from RC): <u>22:33</u> Stop time (from RC): <u>23:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.48x10<sup>6</sup></u>	hTRIG3 rate <u>2800</u>	hTRIG4 rate <u>1850</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>24</u> μA	Comments:			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.97</u>	Max NPS anode current (single crystal) <u>6.28</u> (μA)		

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: Scaler rate online plot look not good.

Run Number: <u>2628</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>0</u>	Start time (from RC): <u>22:42</u> Stop time (from RC): <u>23:04</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.48x10<sup>6</sup></u>	hTRIG3 rate <u>2800</u>	hTRIG4 rate <u>1850</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>24</u> μA	Comments:			Events <u>0.714</u> Charge <u>0.21 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.97</u>	Max NPS anode current (single crystal) <u>6.28</u> (μA)		

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: Final seg # 1.

Run Number: <u>2629</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>0</u>	Start time (from RC): <u>23:12</u> Stop time (from RC): <u>23:35</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.5x10<sup>5</sup></u>	hTRIG3 rate <u>1245</u>	hTRIG4 rate <u>970</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> μA	Comments:			Events <u>0.271</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: # Final seg # 0

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

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

Date: 23 / 4 / 04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-41

Purpose:

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.539 GeV

Raster:  On  Off

Size: 2x2

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

SHMS

NPS

p: +0.5-5  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-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: 2630	<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: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 23:37 Stop time (from RC): 00:17	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.27x10 <sup>6</sup> hTRIG5 rate: 600	hTRIG3 rate: 2130 hTRIG6 rate: 450	hTRIG4 rate: 1570 <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: Final Segment #: 4	Events: 33M Charge: 241.6C	Active trigger LiveTime fraction (NPS Scaler Gui): ~100%	Max NPS anode current (single crystal) (μA): 5.43
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Run Number: 2631	<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: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 00:23 Stop time (from RC): 01:08	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.5 MHz hTRIG5 rate: 900 Hz	hTRIG3 rate: 2.6 kHz hTRIG6 rate: 700 Hz	hTRIG4 rate: 1.9 kHz <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: Final Segment #: 7	Events: 4.8M Charge: 56.6C	Active trigger LiveTime fraction (NPS Scaler Gui): ~100%	Max NPS anode current (single crystal) (μA): 6.66
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Run Number: 2632	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 01:12 Stop time (from RC): 01:40	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.5 MHz hTRIG5 rate: 430 Hz	hTRIG3 rate: 1.3 kHz hTRIG6 rate: 350 Hz	hTRIG4 rate: 950 Hz <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 checked="" type="checkbox"/>	Comments: Final Segment #: 1	Events: 470k Charge: 3.92C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%	Max NPS anode current (single crystal) (μA): 3.44
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Run Number: 2633	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 3	Start time (from RC): 01:46 Stop time (from RC): 01:58	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.9 MHz hTRIG5 rate: 1.5 kHz	hTRIG3 rate: 3.7 kHz hTRIG6 rate: 1.2 kHz	hTRIG4 rate: 2.7 kHz <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: Final Segment #: 2	Events: 163k Charge: 21.4C	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal) (μA): 8.89
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# $p(e,e'\gamma) p$ Run Sheet

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

Date: 23 / 11 / 105  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-4'

**Purpose:**

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

HMS, field,  
current OK?

yes  no

$E_{beam}$ : 10.539 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: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>0.7</u> mm		<u>0.3</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

**HMS**

**SHMS**

**NPS**

$p$ : +5.25  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.64  
Nearest 0.005

$\theta$  = SHMS 14.39  
-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:

2634

$I_{beam}$ : 15  $\mu A$

- 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: 0

Start time (from RC): 01:13  
Stop time (from RC): 02:16

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

hTRIG1 rate: 2.3 MHz  
hTRIG5 rate: 2.1 kHz

hTRIG3 rate: 4.0 kHz  
hTRIG6 rate: 1.5 kHz

hTRIG4 rate: 2.8 kHz  
 Data ok  
 Junk

*(DST change - back 1 hr)*

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final Segment #: 12

Events 4.9M  
Charge 45.36 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.8%

Max NPS anode current (single crystal): 6.77 ( $\mu A$ )

Run Number:

2635

$I_{beam}$ : 15  $\mu A$

- 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: 0

Start time (from RC): 02:18  
Stop time (from RC): 03:22

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

hTRIG1 rate: 2.3 MHz  
hTRIG5 rate: 2.1 kHz

hTRIG3 rate: 4.0 kHz  
hTRIG6 rate: 1.5 kHz

hTRIG4 rate: 2.8 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final Segment #: 13

Events 5.2M  
Charge 48.19 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%

Max NPS anode current (single crystal): 6.83 ( $\mu A$ )

Run Number:

2636

$I_{beam}$ : 15  $\mu A$

- 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: 0

Start time (from RC): 03:24  
Stop time (from RC): 04:25

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

hTRIG1 rate: 2.3 MHz  
hTRIG5 rate: 2.1 kHz

hTRIG3 rate: 4.0 kHz  
hTRIG6 rate: 1.5 kHz

hTRIG4 rate: 2.9 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final Segment #: 11

Events 4.7M  
Charge 43.6 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.8%

Max NPS anode current (single crystal): 6.82 ( $\mu A$ )

Run Number:

2637

$I_{beam}$ : 15  $\mu A$

- 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: 0

Start time (from RC): 04:27  
Stop time (from RC): 05:28

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

hTRIG1 rate: 2.3 MHz  
hTRIG5 rate: 2.1 kHz

hTRIG3 rate: 3.9 kHz  
hTRIG6 rate: 1.5 kHz

hTRIG4 rate: 2.8 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final Segment #: 11

Events 4.6M  
Charge 42.56 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%

Max NPS anode current (single crystal): 6.34 ( $\mu A$ )

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

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

Date: 23 / 11 / 05  
 yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-41

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.534 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: <u>1.7</u>	Nomin: <u>0.3</u>	
3H07C	X	Y
<u>0.7</u> mm	<u>0.3</u> mm	
Nomin: <u>0.7</u>	Nomin: <u>0.3</u>	

**HMS**

**SHMS**

**NPS**

$p$ : +10 5.75  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet  $I =$  4.5 Amp  
 NPS Upstream Corr.  $I =$  off Amp  
 NPS Upstream Corr.  $I =$  off Amp

Run Number: <u>2638</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>05:30</u> Stop time (from RC): <u>05:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
$I_{beam}$ : <u>15</u> $\mu A$					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>Junk - no beam</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>2639</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>06:29</u> Stop time (from RC): <u>07:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 MHz</u>	hTRIG3 rate <u>4.0 kHz</u>	hTRIG4 rate <u>2.9 kHz</u>
$I_{beam}$ : <u>15</u> $\mu A$					hTRIG5 rate <u>2.1 kHz</u>	hTRIG6 rate <u>1.6 kHz</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>Final segment #: 12</u>	Events <u>4.9M</u> Charge <u>1.3mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) ( $\mu A$ ) <u>6.72</u>
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Run Number: <u>2640</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>07:36</u> Stop time (from RC): <u>08:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8 MHz</u>	hTRIG3 rate <u>2.6 kHz</u>	hTRIG4 rate <u>1.9 kHz</u>
$I_{beam}$ : <u>10</u> $\mu A$					hTRIG5 rate <u>1.1 kHz</u>	hTRIG6 rate <u>800</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>Final segment #: 1</u>	Events <u>4.7k</u> Charge <u>1.3mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) ( $\mu A$ ) <u>4.48</u>
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Run Number: <u>2641</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>08:08</u> Stop time (from RC): <u>08:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>940 k</u>	hTRIG3 rate <u>1.3k</u>	hTRIG4 rate <u>970</u>
$I_{beam}$ : <u>5</u> $\mu A$					hTRIG5 rate <u>340</u>	hTRIG6 rate <u>240</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>Final segment #: 0</u>	Events <u>2.7k</u> Charge <u>5.3mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu A$ ) <u>2.09</u>
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# p(e,e' $\gamma$ ) p Run Sheet

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

Date: 23 11 10 5  
yy mm dd

Initials: ERK

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50\_4'

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.5 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u> mm		<u>.29</u> mm
Nomin: <u>1.7</u>		Nomin: <u>1.3</u>
3H07C	X	Y
<u>170</u> mm		<u>1.80</u> mm
Nomin: <u>1.7</u>		Nomin: <u>3</u>

**HMS**

**SHMS**

**NPS**

p: +5.25  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.89  
Nearest 0.005

$\theta$  = SHMS 4.39  
-16.30° Nearest 0.005

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

Run Number: <u>2442</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>8:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3M</u>	hTRIG3 rate <u>1.9k</u>	hTRIG4 rate <u>1.4k</u>
I <sub>beam</sub> : <u>7</u> $\mu$ A			Stop time (from RC): <u>9:09</u>		hTRIG5 rate <u>400</u>	hTRIG6 rate <u>400</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>Final Segment # 3</u>	Events <u>2.5M</u> Charge <u>87 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>3.25</u> ( $\mu$ A)
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Run Number: <u>2443</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8M</u>	hTRIG3 rate <u>2.7k</u>	hTRIG4 rate <u>1.9k</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>9:59</u>		hTRIG5 rate <u>1.1k</u>	hTRIG6 rate <u>795</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>Final Segment # 8</u>	Events <u>4.7M</u> Charge <u>23 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>4.7</u> ( $\mu$ A)
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Run Number: <u>2444</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>10:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2M</u>	hTRIG3 rate <u>1.5k</u>	hTRIG4 rate <u>1.0k</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A			Stop time (from RC): <u>10:43</u>		hTRIG5 rate <u>400</u>	hTRIG6 rate <u>300</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>	Comments: <u>Final Segment # 2</u> <u>Beam off almost entire time</u>	Events <u>2.9k</u> Charge <u>3.6 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.5</u> ( $\mu$ A)
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Run Number: <u>2445</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>10:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2M</u>	hTRIG3 rate <u>1.3k</u>	hTRIG4 rate <u>1.0k</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A			Stop time (from RC): <u>11:18</u>		hTRIG5 rate <u>390</u>	hTRIG6 rate <u>290</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>	Comments: <u>Final Segment # 1</u>	Events <u>398k</u> Charge <u>70 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.24</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: 23 / 11 / 05  
yy mm dd

Initials: ERK

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-4'

E<sub>beam</sub>: 10.54 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>1.69</u> mm		<u>.30</u> mm
Nomin: <u>1.7</u>		Nomin: <u>.3</u>
3H07C	X	Y
<u>1.69</u> mm		<u>.31</u> mm
Nomin: <u>.7</u>		Nomin: <u>.3</u>

HMS

p: +5.253  $\theta$ (TV): 19.41  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.69  
Nearest 0.005

NPS

$\theta$  = SHMS 14.39  
-16.30° Nearest 0.005

Collimator:

HMS: Large   
Sieve

NPS Sweep Magnet  
I = 0.8 Amp

NPS Upstream Corr.  
I = 4.68 Amp

NPS Upstream Corr.  
I = 0.9 Amp

Run Number:

2646

- 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: 3

Start time (from RC):

11:22

Stop time (from RC):

11:37

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

hTRIG1 rate

2.2M

hTRIG3 rate

4.0k

hTRIG4 rate

2.9k

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Final Segment # 2

Events 1.2M

Charge 11.8 C

Active trigger LiveTime  
fraction (NPS Scaler Gui)

100%

Max NPS anode current  
(single crystal)

6.97 ( $\mu$ A)

Run Number:

2647

- 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: 0

Start time (from RC):

12:09

Stop time (from RC):

12:23

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

hTRIG1 rate

1.9M

hTRIG3 rate

3.2k

hTRIG4 rate

2.0k

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

1 couldn't get 36?  
Final Segment # 1

Events 640k

Charge 20.4 C

Active trigger LiveTime  
fraction (NPS Scaler Gui)

99.96%

Max NPS anode current  
(single crystal)

14.36 ( $\mu$ A)

Run Number:

2648

- 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: 0

Start time (from RC):

12:25

Stop time (from RC):

12:40

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

hTRIG1 rate

1.1M

hTRIG3 rate

1.8k

hTRIG4 rate

1.3k

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Final Segment # 0

Events 290k

Charge 3.9 C

Active trigger LiveTime  
fraction (NPS Scaler Gui)

99.97%

Max NPS anode current  
(single crystal)

8.4 ( $\mu$ A)

Run Number:

2649

- 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: 0

Start time (from RC):

13:09

Stop time (from RC):

13:31

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

hTRIG1 rate

1.8M

hTRIG3 rate

3.2k

hTRIG4 rate

2.4k

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Final Segment # 2 (only 30 from Accel)

Events 1.1M

Charge 31.9 C

Active trigger LiveTime  
fraction (NPS Scaler Gui)

99.88%

Max NPS anode current  
(single crystal)

8.38 ( $\mu$ A)



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

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

Date: 23 / 11 / 05  
yy mm dd

Initials: ERC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50\_4'

Purpose:

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.5 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u> mm		<u>0.30</u> mm
Nomin: <u>1.7</u>		Nomin: <u>.3</u>
3H07C	X	Y
<u>.70</u> mm		<u>.30</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

HMS

SHMS

NPS

p: +16.253 From GUI  $\theta$ (TV): 16.91 Nearest 0.005

$\theta$ (TV): 30.69 Nearest 0.005

$\theta$  = SHMS 14.39  
-16.30° Nearest 0.005

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

Run Number: <u>2650</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>0</u>	Start time (from RC): <u>13:45</u> Stop time (from RC): <u>14:50</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>1.8k</u>	hTRIG3 rate: <u>3.7k</u> hTRIG6 rate: <u>1.4k</u>	hTRIG4 rate: <u>2.8k</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>Final Segment # 11</u>	Events <u>4.8M</u> Charge <u>23 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.92%</u>	Max NPS anode current (single crystal): <u>9.86</u> ( $\mu$ A)
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Run Number: <u>2651</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>0</u>	Start time (from RC): <u>14:52</u> Stop time (from RC): <u>15:45</u>	<input 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>1.7k</u>	hTRIG3 rate: <u>3.7k</u> hTRIG6 rate: <u>1.3k</u>	hTRIG4 rate: <u>2.7k</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: <u>Final Segment # 8</u>	Events <u>3.65M</u> Charge <u>933 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.77%</u>	Max NPS anode current (single crystal): <u>9.40</u> ( $\mu$ A)
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Run Number: <u>2652</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>0</u>	Start time (from RC): <u>15:47</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>1.5M</u> hTRIG5 rate: <u>884</u>	hTRIG3 rate: <u>2.6k</u> hTRIG6 rate: <u>680</u>	hTRIG4 rate: <u>1.9k</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>Final Segment # 1</u>	Events <u>815K</u> Charge <u>272 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>4.13</u> ( $\mu$ A)
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Run Number: <u>2653</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>16:17</u> Stop time (from RC): <u>16:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.7 MHz</u> hTRIG5 rate: <u>266 Hz</u>	hTRIG3 rate: <u>1.3 kHz</u> hTRIG6 rate: <u>212 Hz</u>	hTRIG4 rate: <u>963 Hz</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>FINAL SEQ # 0</u>	Events <u>281K</u> Charge <u>13.6 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.9%</u>	Max NPS anode current (single crystal): <u>3.44</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: 23 / 11 / 05  
 yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x50\_4

**Purpose:**

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

HMS, field,  
current OK?

yes  no

$E_{beam}$ : 10.53 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 $p$ : +0.5253  $\theta(TV)$ : 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta(TV)$ : 30.69  
Nearest 0.005

**NPS**  
 $\theta =$  SHMS 14.39  
-16.30° Nearest 0.005

3H07A	X	Y
<u>0.7</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.  $I =$  OFF Amp NPS Upstream Corr.  $I =$  OFF Amp

Run Number: <u>2654</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>+</u> PS2: <u>+</u> PS3: <u>0</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>16:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3 MHz</u>	hTRIG3 rate <u>2.1 kHz</u>	hTRIG4 rate <u>1.5 kHz</u>
$I_{beam}$ : <u>20</u> $\mu A$			Stop time (from RC): <u>16:58</u>		hTRIG5 rate <u>609 Hz</u>	hTRIG6 rate <u>498 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>FINAL SEG. # 1</u> <u>Stopped early since beam is not available for ~ 10 mins.</u>	Events <u>1025R</u> Charge <u>8.7</u> nC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>5.51</u> ( $\mu A$ )
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Run Number: <u>2655</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>+</u> PS2: <u>+</u> PS3: <u>0</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>17:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3 MHz</u>	hTRIG3 rate <u>2.1 kHz</u>	hTRIG4 rate <u>1.6 kHz</u>
$I_{beam}$ : <u>20</u> $\mu A$			Stop time (from RC): <u>17:14</u>		hTRIG5 rate <u>650 Hz</u>	hTRIG6 rate <u>490 kHz</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>FINAL SEG. # 2</u>	Events <u>1477R</u> Charge <u>13.7</u> nC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.43</u> ( $\mu A$ )
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Run Number: <u>2656</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>0</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>17:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6 MHz</u>	hTRIG3 rate <u>2.6 kHz</u>	hTRIG4 rate <u>1.9 kHz</u>
$I_{beam}$ : <u>25</u> $\mu A$			Stop time (from RC): <u>18:01</u>		hTRIG5 rate <u>1 kHz</u>	hTRIG6 rate <u>690 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>FINAL SEG. # 7</u>	Events <u>477R</u> Charge <u>55.45</u> nC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.48</u> ( $\mu A$ )
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Run Number: <u>2657</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>18:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5 MHz</u>	hTRIG3 rate <u>1.2 kHz</u>	hTRIG4 rate <u>908 Hz</u>
$I_{beam}$ : <u>12</u> $\mu A$			Stop time (from RC): <u>18:24</u>		hTRIG5 rate <u>475 Hz</u>	hTRIG6 rate <u>350 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>	Comments: <u>FINAL SEG. # 1</u>	Events <u>428K</u> Charge <u>14.2</u> nC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>3.23</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: 23, 11, 05  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50\_4**

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.53 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS

SHMS

NPS

$p$ : +05.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

3H07A	X	Y
1.7 mm	0.3 mm	
Nomin:	Nomin:	
3H07C	X	Y
0.7 mm	0.3 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: 2658	<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: 1 PS5: 3 PS6: 7	Start time (from RC): 18:27 Stop time (from RC): 18:43	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 1.9 MHz hTRIG5 rate: 1.6 kHz	hTRIG3 rate: 3.6 kHz hTRIG6 rate: 1.2 kHz	hTRIG4 rate: 2.7 kHz <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 36 $\mu$ A	Comments: FINAL SEG # 2		Events: 202 K Charge: 28.54 $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 8.91 ( $\mu$ A)		

Run Number: 2659	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 1 PS5: 7 PS6: 0	Start time (from RC): 18:59 Stop time (from RC): 20:04	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.3 MHz hTRIG5 rate: 2.1 kHz	hTRIG3 rate: 4 kHz hTRIG6 rate: 1.5 kHz	hTRIG4 rate: 2.9 kHz <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 15 $\mu$ A	Comments: FINAL SEG # 13		Events: 536 K Charge: 48.85 $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%	Max NPS anode current (single crystal): 6.81 ( $\mu$ A)		

Run Number: 2660	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 1 PS5: 1 PS6: 0	Start time (from RC): 20:05 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: 2.3 MHz hTRIG5 rate: 2.2 kHz	hTRIG3 rate: 4 kHz hTRIG6 rate: 1.5 kHz	hTRIG4 rate: 2.9 kHz <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 15 $\mu$ A	Comments: FINAL SEG # 2 No beam for more than 15 min		Events: 824 K Charge: 7.37 $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.8%	Max NPS anode current (single crystal): 6.81 ( $\mu$ A)		

Run Number: 2661	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 1 PS5: 1 PS6: 0	Start time (from RC): 20:30 Stop time (from RC): 21:23	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.3 MHz hTRIG5 rate: 2.2 kHz	hTRIG3 rate: 4 kHz hTRIG6 rate: 1.5 kHz	hTRIG4 rate: 2.9 kHz <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : 15 $\mu$ A	Comments: FINAL SEG # 10		Events: 3956 K Charge: 36.13 $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.8%	Max NPS anode current (single crystal): 6.73 ( $\mu$ A)		

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 05  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-4**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 1053 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>6.7</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: +105253 θ(TV): 16.91  
From GUI Nearest 0.005

θ(TV): 30.69  
Nearest 0.005

θ = SHMS  
-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>2662</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>→</u> PS5: <u>→</u> PS6: <u>0</u>	Start time (from RC): <u>21:24</u> Stop time (from RC): <u>22:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6 MHz</u> hTRIG5 rate: <u>2 kHz</u>	hTRIG3 rate: <u>3.5 kHz</u> hTRIG6 rate: <u>1.4 kHz</u>	hTRIG4 rate: <u>2.7 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: FINAL SEG # 13  
Events 5256K Charge 49.4 μC Active trigger LiveTime fraction (NPS Scaler Gui) 99.9% Max NPS anode current (single crystal) 6.44 (μA)

Run Number: <u>2663</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>→</u> PS5: <u>→</u> PS6: <u>0</u>	Start time (from RC): <u>22:31</u> Stop time (from RC): <u>23:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6 MHz</u> hTRIG5 rate: <u>2 kHz</u>	hTRIG3 rate: <u>3.5 kHz</u> hTRIG6 rate: <u>1.4 kHz</u>	hTRIG4 rate: <u>2.7 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: FINAL SEG # 11  
Events 4644K Charge 49.4 μC Active trigger LiveTime fraction (NPS Scaler Gui) 99.9% Max NPS anode current (single crystal) 6.38 (μA)

Run Number: <u>2664</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>→</u> PS5: <u>→</u> PS6: <u>0</u>	Start time (from RC): <u>23:30</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>1.6 MHz</u> hTRIG5 rate: <u>2 kHz</u>	hTRIG3 rate: <u>3.5 kHz</u> hTRIG6 rate: <u>1.4 kHz</u>	hTRIG4 rate: <u>2.7 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Final segment = 15  
Events 6104K Charge 55.96 μC Active trigger LiveTime fraction (NPS Scaler Gui) 99.7% Max NPS anode current (single crystal) 6.64 (μA)

Run Number: <u>2665</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>0:53</u> Stop time (from RC): <u>1:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.32 MHz</u> hTRIG5 rate: <u>1.1 kHz</u>	hTRIG3 rate: <u>2.7 kHz</u> hTRIG6 rate: <u>800 Hz</u>	hTRIG4 rate: <u>1.8 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Final segment = # 2  
Events 1175K Charge 14.02 μC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 4.34 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 06  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-4**

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS  
p: +05.253 θ(TV): 16.91  
From GUI Nearest 0.005

SHMS  
θ(TV): 30.69  
Nearest 0.005

NPS  
θ = SHMS  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.7</u> mm		<u>0.30</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 = off Amp NPS Upstream Corr. I = off Amp

Run Number: <u>2666</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>1:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.6 × 10<sup>3</sup> Hz</u>	hTRIG3 rate <u>1.36 KHz</u>	hTRIG4 rate <u>988 Hz</u>
I <sub>beam</sub> : <u>5</u> μA			Stop time (from RC): <u>1:52</u>		hTRIG5 rate <u>352 Hz</u>	hTRIG6 rate <u>263 Hz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: FINAL SEGMENT # 0  
Events 352K Charge 6.67 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 2.04 μA

Run Number: <u>2667</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>1:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.953 MHz</u>	hTRIG3 rate <u>1.85 KHz</u>	hTRIG4 rate <u>1.4 KHz</u>
I <sub>beam</sub> : <u>7</u> μA			Stop time (from RC): <u>2:10</u>		hTRIG5 rate <u>567 Hz</u> <u>1.34 MHz</u>	hTRIG6 rate <u>438 Hz</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: Live time = 0. stopped run/junk  
Events 1M Charge 7.56 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0.00% Max NPS anode current (single crystal) 3.03 μA

Run Number: <u>2668</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>2:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.937 MHz</u>	hTRIG3 rate <u>1.88 KHz</u>	hTRIG4 rate <u>1.3 KHz</u>
I <sub>beam</sub> : <u>7</u> μA			Stop time (from RC): <u>2:35</u>		hTRIG5 rate <u>575 Hz</u>	hTRIG6 rate <u>463 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: Live time from scaler GUI. still = 0.0%. otherwise run appears fine. Continuing to take data FINAL SEG = 3  
Events 2.6M Charge 9.16 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0.00% Max NPS anode current (single crystal) 3.2 μA

Run Number: <u>2669</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.36 MHz</u>	hTRIG3 rate <u>2.7 KHz</u>	hTRIG4 rate <u>1.9 KHz</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>3:23</u>		hTRIG5 rate <u>1.1 KHz</u>	hTRIG6 rate <u>4d 808 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: Final seg = # 7  
Events 4.5M Charge 22 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0.00% Max NPS anode current (single crystal) 4.50 μA

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

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

Date: 23, 11, 06  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC x 50-4**

E<sub>beam</sub>: 10.54 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	<u>0.30</u>	Y
<u>1.7</u>	mm	<del>2.28</del>	mm
Nomin:			Nomin:
3H07C	X	<u>0.72</u>	Y
		<u>0.29</u>	mm
Nomin:			Nomin:

**HMS**

p: +12 5.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 30.69  
Nearest 0.005

**NPS**

$\theta$  = SHMS  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 408 Amp  
NPS Upstream Corr. I = OFF Amp  
NPS Upstream Corr. I = OFF Amp

Run Number:

2670

I<sub>beam</sub>: 5  $\mu$ 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: 0

Start time (from RC):  
3:30

Stop time (from RC):  
3:56

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

hTRIG1 rate  
6.7 · 10<sup>5</sup> Hz

hTRIG3 rate  
1.3 KHz

hTRIG4 rate  
971 Hz

hTRIG5 rate  
398 Hz

hTRIG6 rate  
283 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment # = 1

Events 401K  
Charge 6.78 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

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

Run Number:

2671

I<sub>beam</sub>: 15  $\mu$ 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: -3

Start time (from RC):  
4:01

Stop time (from RC):  
4:03

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

hTRIG1 rate  
2.86 MHz

hTRIG3 rate  
3.0

hTRIG4 rate  
/

hTRIG5 rate  
/

hTRIG6 rate  
/

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: wrong prescale value

Events /  
Charge / C

Active trigger LiveTime fraction (NPS Scaler Gui)  
/

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

Run Number:

2672

I<sub>beam</sub>: 15  $\mu$ 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: 3

Start time (from RC):  
4:05

Stop time (from RC):  
4:16

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

hTRIG1 rate  
2.15 MHz

hTRIG3 rate  
4 KHz

hTRIG4 rate  
2.8 KHz

hTRIG5 rate  
2.0 KHz

hTRIG6 rate  
1.5 KHz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment # = ~~1~~ 2

Events 181K  
Charge 8.84 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100.00%

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

Run Number:

2673

I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC):  
4:48

Stop time (from RC):  
5:06

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

hTRIG1 rate  
1.1 MHz

hTRIG3 rate  
3.3 KHz

hTRIG4 rate  
2.47 KHz

hTRIG5 rate  
1.8 KHz

hTRIG6 rate  
1.28 KHz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment # = 1.

Events 500K  
Charge 22.14 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.939%

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

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

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

Date: 23, 11, 6  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x50-4

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.54 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**

**SHMS**

**NPS**

p: +05.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS  
-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>2674</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: - PS4: - PS5: - PS6: 0	Start time (from RC): <u>5:13</u> Stop time (from RC): <u>5:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>872 kHz</u>	hTRIG3 rate <u>1.8 kHz</u>	hTRIG4 rate <u>1.28 kHz</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A					hTRIG5 rate <u>509 Hz</u>	hTRIG6 rate <u>369 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: stopped early for tune beam due to # of trips.  
 # segment : 0  
 Events 109K Charge 4.88 M.C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 8.66 ( $\mu$ A)

Run Number: <u>2675</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: - PS4: - PS5: - PS6: 0	Start time (from RC): <u>7:29</u> Stop time (from RC): <u>7:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>836 kHz</u>	hTRIG3 rate <u>1.8 kHz</u>	hTRIG4 rate <u>1.3 kHz</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A					hTRIG5 rate <u>520 Hz</u>	hTRIG6 rate <u>356 Hz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: Final segment # = 0  
 Events 232K Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.928%  
 Max NPS anode current (single crystal) 7.8 ( $\mu$ A)

Run Number: <u>2676</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: - PS5: - PS6: 0	Start time (from RC): <u>7:53</u> Stop time (from RC): <u>7:55</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>36</u> $\mu$ A					hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: started before reaching nominal current  
 Events 4.7K Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui)

Run Number: <u>2677</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: - PS5: - PS6: 0	Start time (from RC): <u>8:01</u> Stop time (from RC): <u>09:04:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.76 MHz</u>	hTRIG3 rate <u>3.67 kHz</u>	hTRIG4 rate <u>2.7 kHz</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A					hTRIG5 rate <u>1.8 kHz</u>	hTRIG6 rate <u>1.3 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: max segment = 10  
 Events 456499 Charge 12.43 C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.833%  
 Max NPS anode current (single crystal) 9.13 ( $\mu$ A)

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

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

Date:    /    /     
 yy mm dd

Initials:       

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-4

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2mm x 2mm

Beam position and angle on target:

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

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

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

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

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

Run Number: <u>2679</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>0</u>	Start time (from RC): <u>16:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.09e+06</u>	hTRIG3 rate <u>3670.9</u>	hTRIG4 rate <u>2752.7</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments:		Stop time (from RC): <u>17:47</u>		hTRIG5 rate <u>1756.6</u>	hTRIG6 rate <u>1339.9</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"/>	Events <u>45608</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>2680</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>0</u>	Start time (from RC): <u>17:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.47e+06</u>	hTRIG3 rate <u>2356.6</u>	hTRIG4 rate <u>1770.6</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A	Comments:		Stop time (from RC): <u>18:19</u>		hTRIG5 rate <u>821.3</u>	hTRIG6 rate <u>635.5</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"/>	Events <u>892K</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>2681</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>0</u>	Start time (from RC): <u>18:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>769x105</u>	hTRIG3 rate <u>1279.7</u>	hTRIG4 rate <u>977.2</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments:		Stop time (from RC): <u>18:37</u>		hTRIG5 rate <u>269.8</u>	hTRIG6 rate <u>222.1</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"/>	Events <u>237K</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>2682</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>18:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.31 x 10<sup>6</sup></u>	hTRIG3 rate <u>2062.5</u>	hTRIG4 rate <u>1552.8</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>19:02</u>		hTRIG5 rate <u>625.7</u>	hTRIG6 rate <u>482.7</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"/>	Events <u>2656K</u> 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: 23 / 11 / 06  
 yy mm dd

Initials: \_\_\_\_\_

Use a separate sheet for each configuration.

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

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : \_\_\_\_\_ GeV

Raster:  On  Off  
 Size: \_\_\_\_\_

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>2683</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>19:03</u> Stop time (from RC): <u>19:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.59x06</u>	hTRIG3 rate <u>2581.1</u>	hTRIG4 rate <u>1917.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>25</u> $\mu A$	Comments:			Events <u>4529</u> K Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>2684</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>0</u>	Start time (from RC): <u>19:53</u> Stop time (from RC): <u>20:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.31x06</u>	hTRIG3 rate <u>1226.0</u>	hTRIG4 rate <u>934.0</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>12</u> $\mu A$	Comments:			Events <u>375</u> K Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>								

Run Number: <u>2685</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>7</u> PS6: <u>3</u>	Start time (from RC): <u>20:20</u> Stop time (from RC): <u>20:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>186x06</u>	hTRIG3 rate <u>3540.1</u>	hTRIG4 rate <u>2607.1</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>36</u> $\mu A$	Comments:			Events <u>165</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>2686</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>20:43</u> Stop time (from RC): <u>21:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.15x06</u>	hTRIG3 rate <u>3923.3</u>	hTRIG4 rate <u>2809.2</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>15</u> $\mu A$	Comments:			Events <u>4366</u> K Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		
coin_sparse <input checked="" type="checkbox"/> oin <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: 23/11/07  
yy mm dd

Initials: CAF

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x50-4

Purpose:

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

HMS, field,  
current OK?

yes  no

$E_{beam}$ : 10.54 GeV

Raster:  On  Off  
Size: 2 x 2 mm

Beam position and angle on target:

HMS

SHMS

NPS

$p$ : +05.253  $\theta(TV)$ : 16.91  
From GUI Nearest 0.005

$\theta(TV)$ : 30.69  
Nearest 0.005

$\theta =$  SHMS  
-16.30° Nearest 0.005

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

Collimator:

HMS: Large   
Sieve

NPS Sweep Magnet  
 $I =$  468 Amp

NPS Upstream Corr.  
 $I =$  6ff Amp

NPS Upstream Corr.  
 $I =$  6ff Amp

Run Number:

2687

- 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: 0

Start time (from RC):

21:59

Stop time (from RC):

23:01

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.15 x 10<sup>6</sup>

hTRIG3 rate

9005.9

hTRIG4 rate

2832.6

$I_{beam}$ : 15  $\mu$ A

hTRIG5 rate

2018.8

hTRIG6 rate

1452.7

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 3917K  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2688

- 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: 0

Start time (from RC):

23:01

Stop time (from RC):

12:00 AM

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.16 x 10<sup>16</sup>

hTRIG3 rate

4061.3

hTRIG4 rate

$I_{beam}$ : 15  $\mu$ A

hTRIG5 rate

2867.8

hTRIG6 rate

1479.3

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4 Mill  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2689

- 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: 0

Start time (from RC):

12:02

Stop time (from RC):

1:04

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.14 x 10<sup>6</sup>

hTRIG3 rate

4015.3

hTRIG4 rate

2858.2

$I_{beam}$ : 15  $\mu$ A

hTRIG5 rate

1998.8

hTRIG6 rate

1429.5

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data  
max segment = 56

Events 4.5M  
44.78  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

99.49%

6.73 ( $\mu$ A)

Run Number:

2690

- 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: 0

Start time (from RC):

1:06

Stop time (from RC):

2:06

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.93 E06

hTRIG3 rate

3998 k

hTRIG4 rate

2.833 k

$I_{beam}$ : 15  $\mu$ A

hTRIG5 rate

1943k

hTRIG6 rate

1400 k

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: max data segment = 56

Events 4.5M  
44.59  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

6 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

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

Date: 23/11/7  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC x 50-4**

Purpose:

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

HMS  
p: +5.253 θ(TV): 16.91  
From GUI Nearest 0.005

SHMS  
θ(TV): 30.69  
Nearest 0.005

NPS  
θ = SHMS  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.7</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u> mm		<u>0.29</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>2691</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</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>1.93x10<sup>6</sup></u>	hTRIG3 rate <u>3965</u>	hTRIG4 rate <u>2761</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC):		hTRIG5 rate <u>1917</u>	hTRIG6 rate <u>1385</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: # data segments = 60 + 1 (0-60)  
Events 4.8 Mill Charge 49.0 mC Active trigger LiveTime fraction (NPS Scaler Gui) 99.48% Max NPS anode current (single crystal) 6 (μA)

Run Number: <u>2692</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>3:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.21x10<sup>6</sup></u>	hTRIG3 rate <u>2602</u>	hTRIG4 rate <u>1876</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>3:41</u>		hTRIG5 rate <u>955</u>	hTRIG6 rate <u>694</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: # data segments = 12 + 1 (0-12)  
Events 1.02 M Charge 14.04 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 4 (μA)

Run Number: <u>2693</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>3:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.24x10<sup>5</sup></u>	hTRIG3 rate <u>1385.5</u>	hTRIG4 rate <u>992</u>
I <sub>beam</sub> : <u>5</u> μA			Stop time (from RC): <u>4:14</u>		hTRIG5 rate <u>304</u>	hTRIG6 rate <u>225</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: # data segments = 3 + 1 (0-3)  
Events 301 K Charge 6.45 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 2 (μA)

Run Number: <u>2694</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>4:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>847x10<sup>5</sup></u>	hTRIG3 rate <u>1816</u>	hTRIG4 rate <u>1340</u>
I <sub>beam</sub> : <u>7</u> μA			Stop time (from RC): <u>4:43</u>		hTRIG5 rate <u>511</u>	hTRIG6 rate <u>377</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: data segment range 0-27  
Events 2.18 M Charge 7.84 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0.00 Max NPS anode current (single crystal) 3 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 07  
yy mm dd

Initials: CA

Use a separate sheet for each configuration.

**Kinematics: KinC x 50-4**

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2 x 2 mm

Beam position and angle on target:

HMS  
p: +10 5.253 θ(TV): 16.91  
From GUI Nearest 0.005

SHMS  
θ(TV): 30.69  
Nearest 0.005

NPS  
θ = SHMS  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.7</u> mm		<u>0.31</u> mm
Nomin:	<u>1.7</u>	Nomin: <u>0.3</u>
3H07C	X	Y
<u>0.70</u> mm		<u>0.31</u> mm
Nomin:	<u>0.7</u>	Nomin: <u>0.3</u>

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 408 Amp NPS Upstream Corr. I = off Amp NPS Upstream Corr. I = off Amp

Run Number: 2695  
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): 4:51  
Stop time (from RC): 5:49

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

hTRIG1 rate 1.28 × 10<sup>6</sup>  
hTRIG5 rate 1038

hTRIG3 rate 2755  
hTRIG6 rate 743

hTRIG4 rate 1906  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data segment #5 0-9.

Events 5.5M  
Charge 26.47 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 0.00%

Max NPS anode current (single crystal) 4 (μA)

Run Number: 2696  
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: -1  
PS5: -1  
PS6: 0

Start time (from RC): 5:55  
Stop time (from RC): 6:26

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

hTRIG1 rate 6.36 × 10<sup>5</sup>  
hTRIG5 rate 334

hTRIG3 rate 1305  
hTRIG6 rate 260

hTRIG4 rate 973  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data segments # 0-1.

Events 434 K  
Charge 26.47 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.919%  
8.38 mC

Max NPS anode current (single crystal) 2 (μA)

Run Number: 2697  
I<sub>beam</sub>: 15 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: -1  
PS6: 3

Start time (from RC): 6:32  
Stop time (from RC): 6:47

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

hTRIG1 rate 1.90 × 10<sup>6</sup> Hz  
hTRIG5 rate 1.916 kHz

hTRIG3 rate 3.947 kHz  
hTRIG6 rate 1.363 kHz

hTRIG4 rate 2.829 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data segments # 0-2.

Events 214 K  
Charge 10.72 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100.00%

Max NPS anode current (single crystal) 76 (μA)

Run Number: 2698  
I<sub>beam</sub>: 36 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: -1  
PS6: 0

Start time (from RC): 7:10  
Stop time (from RC): 7:25

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

hTRIG1 rate 1.66 · 10<sup>6</sup> Hz  
hTRIG5 rate 1.78 kHz

hTRIG3 rate 3.73 kHz  
hTRIG6 rate 1.22 kHz

hTRIG4 rate 2.51 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment # 1

Events 850 K  
Charge 24.33 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.464%

Max NPS anode current (single crystal) 16.86 (μA)

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

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

Date: 23/11/07  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50\_4**

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.54 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>1.71</u> mm		<u>0.32</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

$p$ : +5.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS -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:

2699

$I_{beam}$ : 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: -1  
PS5: -1  
PS6: 0

Start time (from RC):

7:30

Stop time (from RC):

7:45

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$7.44 \times 10^5$

hTRIG3 rate

1.888 kHz

hTRIG4 rate

1.276 kHz

Data ok

Junk

hTRIG5 rate

512 Hz

hTRIG6 rate

338 Hz

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment # = 0

Events 277K  
Charge 13.14 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.929

Max NPS anode current (single crystal) 7 ( $\mu$ A)

Run Number:

2700

$I_{beam}$ : 36  $\mu$ 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: 0

Start time (from RC):

7:57

Stop time (from RC):

9:00

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$2.04 \times 10^6$

hTRIG3 rate

3.764 kHz

hTRIG4 rate

2.823 kHz

Data ok

Junk

hTRIG5 rate

1.735 kHz

hTRIG6 rate

1.302 kHz

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment # = 8

Events 3.9M  
Charge 100.5 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.732%

Max NPS anode current (single crystal) 9 ( $\mu$ A)

Run Number:

2701

$I_{beam}$ : 36  $\mu$ 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: 0

Start time (from RC):

9:01

Stop time (from RC):

10:04

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$2.06 \times 10^6$

hTRIG3 rate

3.645 kHz

hTRIG4 rate

2.822 kHz

Data ok

Junk

hTRIG5 rate

1.760 kHz

hTRIG6 rate

1.327 kHz

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment # = 9

Events 4.1M  
Charge 110.5 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.815%

Max NPS anode current (single crystal) 8.9 ( $\mu$ A)

Run Number:

2702

$I_{beam}$ : 24  $\mu$ 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: 0

Start time (from RC):

10:06

Stop time (from RC):

10:19

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$1.45 \times 10^6$

hTRIG3 rate

2503 Hz

hTRIG4 rate

1817 Hz

Data ok

Junk

hTRIG5 rate

860 Hz

hTRIG6 rate

660 Hz

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Data quality may not good  
See logbook 4216762

Events 462k  
Charge 16.16 mC

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: 23 / 11 / 07  
 yy mm dd

Initials: SP

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-4

Purpose:

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: +5.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.69  
Nearest 0.005

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

3H07A	X	Y
<u>1.69</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 = off Amp NPS Upstream Corr. I = off Amp

Run Number: <u>2703-2704</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: _____ 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 hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Power cycled vme crates, restarted Coda</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>2705</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>1</u> PS5: <u>1</u> PS6: <u>0</u>	Start time (from RC): <u>10:33</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>1.45 x 10<sup>6</sup> Hz</u> hTRIG3 rate <u>2513 Hz</u> hTRIG4 rate <u>1827 Hz</u> hTRIG5 rate <u>862 Hz</u> hTRIG6 rate <u>647 Hz</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>Final segment #: 1</u>	Events <u>784k</u> Charge <u>267 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.971%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>6</u>
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Run Number: <u>2706</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>1</u> PS5: <u>1</u> PS6: <u>0</u>	Start time (from RC): <u>10:57</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>7.28 x 10<sup>5</sup> Hz</u> hTRIG3 rate <u>1258 Hz</u> hTRIG4 rate <u>990 Hz</u> hTRIG5 rate <u>253 Hz</u> hTRIG6 rate <u>213 Hz</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>Final segment #: 0</u>	Events <u>262k</u> Charge <u>13.92 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>3.3</u>
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Run Number: <u>2707</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>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>11:21</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>1.27 x 10<sup>6</sup></u> hTRIG3 rate <u>2115 Hz</u> hTRIG4 rate <u>1600 Hz</u> hTRIG5 rate <u>649 Hz</u> hTRIG6 rate <u>498 Hz</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>Final segment #: 3</u>	Events <u>2.3 M</u> Charge <u>20.6 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A) <u>4.68</u>
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N/A  
PS6 disabled

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

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

Date: 23/11/17  
yy mm dd

Initials: SP

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50.4

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.54 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**  
 $p$ : +05.253  $\theta(TV)$ : 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta(TV)$ : 30.69  
Nearest 0.005

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

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

Run Number: <u>2708</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
$I_{beam}$ : _____ $\mu A$					hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Junk, wrong PS setting

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

Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_

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

Run Number: <u>2709</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>11:45</u> Stop time (from RC): <u>12:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.56 \times 10^6</math></u>	hTRIG3 rate <u>2602 Hz</u>	hTRIG4 rate <u>1978 Hz</u>
$I_{beam}$ : <u>25</u> $\mu A$					hTRIG5 rate <u>908 Hz</u>	hTRIG6 rate <u>710 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 6

Events 4.1M Charge 49.07 mC

Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_

Max NPS anode current (single crystal) 6.52 ( $\mu A$ )

Run Number: <u>2710</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>0</u>	Start time (from RC): <u>12:29</u> Stop time (from RC): <u>12:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.03 \times 10^6</math></u>	hTRIG3 rate <u>1325 Hz</u>	hTRIG4 rate <u>991 Hz</u>
$I_{beam}$ : <u>12</u> $\mu A$					hTRIG5 rate <u>333 Hz</u>	hTRIG6 rate <u>257 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: There is an area of 3x7 with off timing (col: 4-6, row: 26-32)

Events 368k Charge 15.47 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 3 ( $\mu A$ )

Run Number: <u>2711</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>3</u>	Start time (from RC): <u>13:01</u> Stop time (from RC): <u>13:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.87 \times 10^6</math></u>	hTRIG3 rate <u>3745 Hz</u>	hTRIG4 rate <u>2824 Hz</u>
$I_{beam}$ : <u>36</u> $\mu A$					hTRIG5 rate <u>1680 Hz</u>	hTRIG6 rate <u>1269 Hz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 130k Charge 19.12 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 9.62 ( $\mu A$ )

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

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

Date: 23 / 11 / 7  
yy mm dd

Initials: SP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-4**

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 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**  
p: +05.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.69  
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 = off Amp  
NPS Upstream Corr. I = off Amp

Run Number: 2712  
I<sub>beam</sub>: 5  $\mu$ 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: 0

Start time (from RC): 13:21  
Stop time (from RC): 14:22

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

hTRIG1 rate: 3.08x10<sup>5</sup>  
hTRIG5 rate: 92 Hz

hTRIG3 rate: 525 Hz  
hTRIG6 rate: 81 Hz

hTRIG4 rate: 424 Hz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: NPS sweeper at 50% = 234 A

Events 290k  
Charge 16.75 mC

Active trigger LiveTime fraction (NPS Scaler Gui): 100%

Max NPS anode current (single crystal): 1.63 ( $\mu$ A)

Run Number: 2713  
I<sub>beam</sub>: 15  $\mu$ 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: 0

Start time (from RC): 14:36  
Stop time (from RC): 15:37

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

hTRIG1 rate: 2.30x10<sup>6</sup>  
hTRIG5 rate: 2176 Hz

hTRIG3 rate: 3994 Hz  
hTRIG6 rate: 1480 Hz

hTRIG4 rate: 2843 Hz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 13  
Production 1/6

Events 5.17M  
Charge 49.47 mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.879%

Max NPS anode current (single crystal): 4.98 ( $\mu$ A)

Run Number: 2714  
I<sub>beam</sub>: 15  $\mu$ 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: 0

Start time (from RC): 15:38  
Stop time (from RC): 16:43

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

hTRIG1 rate: 2.28x10<sup>6</sup>  
hTRIG5 rate: 2078 Hz

hTRIG3 rate: 3998 Hz  
hTRIG6 rate: 1525 Hz

hTRIG4 rate: 2830 Hz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 14  
Production 2/6

Events 5.7M  
Charge 53.39 mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.865%

Max NPS anode current (single crystal): 6.12 ( $\mu$ A)

Run Number: 2715  
I<sub>beam</sub>: 15  $\mu$ 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: 0

Start time (from RC): 16:46  
Stop time (from RC): 17:48

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

hTRIG1 rate: 2240k  
hTRIG5 rate: 2004.9

hTRIG3 rate: 3890.3  
hTRIG6 rate: 1432.8

hTRIG4 rate: 2761.6  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 12  
production 3/6

Events 5.1M  
Charge 49.97 mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.8%

Max NPS anode current (single crystal): 6.42 ( $\mu$ A)



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

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

Date: 23 / 11 / 17  
yy mm dd

Initials: Hao

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x50-4

**Purpose:**

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

HMS, field,  
current OK?

yes  no

$E_{beam}$ : 10.539 GeV

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

Beam position and angle on target:

**HMS**

**SHMS**

**NPS**

$p$ : +0 5.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-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:

2716

- 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: 0

Start time (from RC):  
17:49:41

Stop time (from RC):  
18:20

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

hTRIG1 rate  
2250k

hTRIG3 rate  
3838.3

hTRIG4 rate  
2724.9

hTRIG5 rate  
1974.1

hTRIG6 rate  
1411.8

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 4  
production 4/6

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

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.8%

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

Run Number:

2717

- 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: 0

Start time (from RC):  
10:23:52

Stop time (from RC):  
19:23

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

hTRIG1 rate  
2290k

hTRIG3 rate  
3951.8

hTRIG4 rate  
2801.2

hTRIG5 rate  
2121.4

hTRIG6 rate  
1519.8

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #:  
production 4/6, Junk due to  
sub-issue

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

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.8%

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

Run Number:

2718

- 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: 0

Start time (from RC):  
~~18:23~~

Stop time (from RC):  
~~19:23~~

- 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 due to nps-vme2  
timing issue

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

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.8%

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

Run Number:

2719

- 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: 0

Start time (from RC):  
20:04:10

Stop time (from RC):  
20:39

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

hTRIG1 rate  
2260k

hTRIG3 rate  
3954.8

hTRIG4 rate  
2782.8

hTRIG5 rate  
2055.8

hTRIG6 rate  
1462.9

- Data ok
- Junk

coin\_sparse   
oin   
coin\_sparse\_low

Comments: Final segment #:  
production 4/6

Events 2920k  
Charge 27.44C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.8%

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

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

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

Date: 23/11/07  
yy mm dd

Initials: Had

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-4**

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.539 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>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

$p$ : +0.5.253  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-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: 2720

- 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: 0

Start time (from RC): 20:41:45

Stop time (from RC): 21:42:57

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

hTRIG1 rate 2250 k

hTRIG3 rate 4032.9

hTRIG4 rate 2872.5

hTRIG5 rate 2107.9

hTRIG6 rate 1516.7

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 12 production 5/6

Events 4832 k  
Charge 48.5 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.8%

Max NPS anode current (single crystal) 6.59 ( $\mu$ A)

Run Number: 2721

- 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: 0

Start time (from RC): 21:45:05

Stop time (from RC): 23:00:04

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

hTRIG1 rate 2240 k

hTRIG3 rate 3921.3

hTRIG4 rate 2790.2

hTRIG5 rate 2033.3

hTRIG6 rate 1458.1

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 12 production 6/6

Events 5163 k  
Charge 48.23 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.8%

Max NPS anode current (single crystal) 6.59 ( $\mu$ A)

Run Number: 2722

- 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: 0

Start time (from RC): 23:05:09

Stop time (from RC): 23:34:15

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

hTRIG1 rate 173 k

hTRIG3 rate 2612

hTRIG4 rate 1858.3

hTRIG5 rate 1030.7

hTRIG6 rate 742.4

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 2

Events 1192 k  
Charge 14.5 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 3.54 ( $\mu$ A)

Run Number: 2723

- 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: 0

Start time (from RC): 23:36:09

Stop time (from RC): 23:56:36

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

hTRIG1 rate 890 k

hTRIG3 rate 1314.2

hTRIG4 rate 970.2

hTRIG5 rate 311.3

hTRIG6 rate 241.4

- Data ok
- Junk

coin\_sparse   
oin   
coin\_sparse\_low

Comments: Final segment #: 0

Events 284 k  
Charge 5.71 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 2.49 ( $\mu$ A)

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

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

Date: 23/11/08  
yy mm dd

Initials: LN

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-4

Purpose:

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.539 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>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.203  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

$\theta$ (TV): 30.69  
Nearest 0.005

$\theta$  = SHMS 14.39  
-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>2724</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>27:58:15</u> Stop time (from RC): <u>00:19:</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2280 K</u> hTRIG5 rate: <u>2133.2</u>	hTRIG3 rate: <u>4061</u> hTRIG6 rate: <u>2873.3</u>	hTRIG4 rate: <u>2873.3</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>Final segment #: 3</u>	Events <u>1957 K</u> Charge <u>15.22 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>(<math>\mu</math>A)</u>
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Run Number: <u>2725</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>60:22:40</u> Stop time (from RC): <u>61:02:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <del>2280 K</del> <u>1760 K</u> hTRIG5 rate: <u>1066.0</u>	hTRIG3 rate: <del>4061</del> <u>3685</u> hTRIG6 rate: <u>774.6</u>	hTRIG4 rate: <del>2873.3</del> <u>1859.5</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>Final segment #: 7</u>	Events <u>1356 K</u> Charge <u>21.22 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>4.13 (<math>\mu</math>A)</u>
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Run Number: <u>2726</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>01:07:58</u> Stop time (from RC): <u>01:31:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>278 K</u> hTRIG5 rate: <u>133.9</u>	hTRIG3 rate: <u>43.5</u> hTRIG6 rate: <u>169.4</u>	hTRIG4 rate: <u>266.2</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 checked="" type="checkbox"/>	Comments: <u>Final segment #: 0</u>	Events <u>215 K</u> Charge <u>5.63 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>N/A (<math>\mu</math>A)</u>
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Run Number: <u>2727</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3</u>	Start time (from RC): <u>01:36:27</u> Stop time (from RC): <u>01:48:37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>210 K</u> hTRIG5 rate: <u>196.7</u>	hTRIG3 rate: <u>3938</u> hTRIG6 rate: <u>1378.6</u>	hTRIG4 rate: <u>2910.2</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Final segment #: 2</u>	Events <u>190 K</u> Charge <u>9.45 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>N/A (<math>\mu</math>A)</u>
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# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 08  
yy mm dd

Initials: LTA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-4**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.529 GeV

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

Beam position and angle on target:

**HMS**  
p: +0.753 θ(TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.69  
Nearest 0.005

**NPS**  
θ = SHMS 14.39  
-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>2728</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>0</u>	Start time (from RC): <u>02:02:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2060 k</u>	hTRIG3 rate <u>3900</u>	hTRIG4 rate <u>2520.9</u>
I <sub>beam</sub> : <u>36</u> μA			Stop time (from RC): <u>02:12:59</u>		hTRIG5 rate <u>1726.1</u>	hTRIG6 rate <u>1111.3</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>Final segment #: 1</u>		Events <u>715 k</u> Charge <u>20.46</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>15.65</u> (μA)		

Run Number: <u>2729</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>0</u>	Start time (from RC): <u>02:17:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1100 k</u>	hTRIG3 rate <u>1870</u>	hTRIG4 rate <u>1284.2</u>
I <sub>beam</sub> : <u>18</u> μA			Stop time (from RC): <u>02:28</u>		hTRIG5 rate <u>465.5</u>	hTRIG6 rate <u>324.1</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>Final segment #: 0</u>		Events <u>215 k</u> Charge <u>10.43</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>8.46</u> (μA)		

Run Number: <u>2730</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>0</u>	Start time (from RC): <u>02:38:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2040 k</u>	hTRIG3 rate <u>3750</u>	hTRIG4 rate <u>2735.9</u>
I <sub>beam</sub> : <u>36</u> μA			Stop time (from RC): <u>03:43:56</u>		hTRIG5 rate <u>1758.8</u>	hTRIG6 rate <u>1437.2</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>Final segment #: 9</u>		Events <u>4182 k</u> Charge <u>107.49</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>9.11</u> (μA)		

Run Number: <u>2731</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>0</u>	Start time (from RC): <u>03:46:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2040 k</u>	hTRIG3 rate <u>3735</u>	hTRIG4 rate <u>2775.0</u>
I <sub>beam</sub> : <u>36</u> μA			Stop time (from RC): <u>05:00:16</u>		hTRIG5 rate <u>1725.3</u>	hTRIG6 rate <u>1381.9</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>Final segment #: 10</u>		Events <u>4736 k</u> Charge <u>123.18</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>9.02</u> (μA)		

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

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

Date: 23, 11, 08  
yy mm dd

Initials: Lin

Use a separate sheet for each configuration.

**Kinematics:** KinC x 50-4

Purpose:

- Production
- Test
- Optics
- Other: cosmics

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

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

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: +/- \_\_\_\_\_  $\theta$ (TV): 16.91  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.69  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 19.39  
-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>2732</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 <input checked="" type="checkbox"/> Home	PS1: <u>-1</u> PS2: <u>2</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:12:45</u> Stop time (from RC): <u>05:55:41</u>	<input 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
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/> <u>coin-cosmics</u>	Comments: <u>cosmics run</u> <u>No T2 trigger</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>2733</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 <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>2</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:58:35</u> Stop time (from RC): <u>06:00:14</u>	<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
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/> <u>coin-cosmics</u>	Comments: <u>cosmics run</u> <u>No T2 trigger</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>2734-2741</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 <input type="checkbox"/>	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
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/> <u>coin-cosmics</u>	Comments: <u>test runs trying to solve the trigger issue</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>2742</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 <input type="checkbox"/>	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	hTRIG3 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"/> <u>coin-cosmics</u>	Comments: <u>Sweep magnet off</u>	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: 23 / 11 / 08  
 yy mm dd

Initials: BD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-3

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.59 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**

p: +/-5.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 34.02  
Nearest 0.005

**NPS**

$\theta$  = SHMS 39.02  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.729</u> mm		<u>0.301</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.727</u> mm		<u>0.308</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0.00 Amp  
 NPS Upstream Corr. I = 0.00 Amp

Run Number: <u>2767</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>21:27</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>1997.06</u> hTRIG5 rate: <u>1820.2</u>	hTRIG3 rate: <u>4196.7</u> hTRIG6 rate: <u>1313.6</u>	hTRIG4 rate: <u>3003.6</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:	Events <u>4538</u> K 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>2768</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>22:35</u> Stop time (from RC): <u>23:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1937.06</u> hTRIG5 rate: <u>1689.8</u>	hTRIG3 rate: <u>4056.5</u> hTRIG6 rate: <u>1230.6</u>	hTRIG4 rate: <u>2908.5</u> <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:	Events <u>3324</u> K 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>2769</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>23:37</u> Stop time (from RC): <u>00:40:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1967.06</u> hTRIG5 rate: <u>1791.5</u>	hTRIG3 rate: <u>4268.2</u> hTRIG6 rate: <u>1297.7</u>	hTRIG4 rate: <u>3038.8</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>Final segment # = 10</u>	Events <u>4323</u> K Charge <u>21C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>5.22</u>
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Run Number: <u>2770</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>00:48:09</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>1930</u> K hTRIG5 rate: <u>1655.2</u>	hTRIG3 rate: <u>4206.2</u> hTRIG6 rate: <u>1239.0</u>	hTRIG4 rate: <u>2934.7</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>Final segment # : 10</u>	Events <u>4843</u> K Charge <u>21C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>5.12</u>
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# p(e,e' $\gamma$ ) p Run Sheet

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

Date: 23 / 11 / 09  
yy mm dd

Initials: RLZ

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-3

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

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

Beam position and angle on target:

HMS

SHMS

NPS

p: +Q 5.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 34.02  
Nearest 0.005

$\theta$  = SHMS 17.72  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.71</u> mm		<u>6.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.71</u> mm		<u>0.34</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 0.0 Amp NPS Upstream Corr. I = 0.0 Amp

Run Number: <u>2771</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>01:57:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1390K</u>	hTRIG3 rate <u>2756.1</u>	hTRIG4 rate <u>1992.4</u>
I <sub>beam</sub> : <u>14</u> $\mu$ A			Stop time (from RC): <u>02:18:19</u>		hTRIG5 rate <u>748.8</u>	hTRIG6 rate <u>595.8</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>Final segment # = 1</u>	Events <u>696K</u> Charge <u>15.43 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.74</u> ( $\mu$ A)
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Run Number: <u>2772</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>02:21:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>616K</u>	hTRIG3 rate <u>1316.4</u>	hTRIG4 rate <u>976.4</u>
I <sub>beam</sub> : <u>7</u> $\mu$ A			Stop time (from RC): <u>02:47:30</u>		hTRIG5 rate <u>209.1</u>	hTRIG6 rate <u>149.1</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>Final segment #: 0</u>	Events <u>172K</u> Charge <u>3.51 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.42</u> ( $\mu$ A)
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Run Number: <u>2773</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>02:51:23</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>21</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"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Final segment #: 2773-2775. No scaler reading at start of run, tested runs</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>2776</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>04:02:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1930K</u>	hTRIG3 rate <u>4881.6</u>	hTRIG4 rate <u>2952.5</u>
I <sub>beam</sub> : <u>21</u> $\mu$ A			Stop time (from RC): <u>04:23:59</u>		hTRIG5 rate <u>1775.0</u>	hTRIG6 rate <u>1192.2</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>Final segment #: 3</u>	Events <u>1597K</u> Charge <u>38.74 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>5.26</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: 23 11 09  
yy mm dd

Initials: RJL

Use a separate sheet for each configuration.

**Kinematics: KinC x 60-3**

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.54 GeV

Raster:  On  Off

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

Beam position and angle on target:

**HMS**

**SHMS**

**NPS**

$p$ : +10.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 34.02  
Nearest 0.005

$\theta$  = SHMS 17.72  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.71</u> mm		<u>0.33</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u> mm		<u>0.28</u> mm
Nomin:		Nomin:

**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>2777</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:27=48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1360</u>	hTRIG3 rate <u>2679.3</u>	hTRIG4 rate <u>1930.8</u>
$I_{beam}$ : <u>14</u> $\mu$ A			Stop time (from RC):		hTRIG5 rate <u>805.7</u>	hTRIG6 rate <u>375.5</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>Final segment #1</u> <u>EB crashed during the run</u>	Events <u>4548</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.79</u>
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Run Number: <u>2778</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <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=30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1330</u>	hTRIG3 rate <u>2713.8</u>	hTRIG4 rate <u>1961.4</u>
$I_{beam}$ : <u>14</u> $\mu$ A			Stop time (from RC): <u>05:41</u>		hTRIG5 rate <u>753.6</u>	hTRIG6 rate <u>560.7</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>Final segment #17</u>	Events <u>4548</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>3.94</u>
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Run Number: <u>2779</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>05:46=46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>891</u>	hTRIG3 rate <u>1376.5</u>	hTRIG4 rate <u>978.1</u>
$I_{beam}$ : <u>7</u> $\mu$ A			Stop time (from RC): <u>06:06</u>		hTRIG5 rate <u>273.0</u>	hTRIG6 rate <u>170.3</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>	Comments:	Events <u>200K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>3.21</u>
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Run Number: <u>2780</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>4</u> PS6: <u>3</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
$I_{beam}$ : <u>21</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: <u>DQ test</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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# p(e,e' $\gamma$ ) p Run Sheet

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

Date: 23/11/09  
yy mm dd

Initials: PZL

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-3

$E_{beam}$ : 10.54 GeV

Raster:  On  Off  
Size: 72 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>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

$p$ : +0.5878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 34.02  
Nearest 0.005

**NPS**

$\theta$  = SHMS 17.72  
-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:

2781

$I_{beam}$ : 21  $\mu$ 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: 0

Start time (from RC):  
07:21:42

Stop time (from RC):  
07:03:00

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

hTRIG1 rate  
1630k

hTRIG3 rate  
4107-3

hTRIG4 rate  
2953.0

hTRIG5 rate  
1473.0

hTRIG6 rate  
1092.6

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #1  
Start of run script not working.

Events 125k  
Charge 11.53 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal) ( $\mu$ A)  
5.03

Run Number:

2782

$I_{beam}$ : 36  $\mu$ 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: 0

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: DAQ test run

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2783

$I_{beam}$ : 36  $\mu$ 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: 0

Start time (from RC):  
07:58:34  
Stop time (from RC):  
08:14:52

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

hTRIG1 rate  
1210k

hTRIG3 rate  
2664.8

hTRIG4 rate  
1789.9

hTRIG5 rate  
699.1

hTRIG6 rate  
458.8

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: DAQ test run

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2784

$I_{beam}$ : 36  $\mu$ 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: 0

Start time (from RC):  
08:18:04  
Stop time (from RC):  
08:31

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

hTRIG1 rate  
1210k

hTRIG3 rate  
2664.8

hTRIG4 rate  
1718.9

hTRIG5 rate  
699.1

hTRIG6 rate  
458.8

- Data ok
- Junk

coin\_sparse   
oin   
oin\_sparse\_low

Comments: Final segment # : 0

Events 317k  
Charge 22.16 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.8%

Max NPS anode current (single crystal) ( $\mu$ A)  
8.48

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

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

Date: 23 / 11 / 09  
yy mm dd

Initials: Hao

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-3**

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.539 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>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

$p$ : +0.5878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 34.02  
Nearest 0.005

$\theta$  = SHMS 17.72  
-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>2785</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>0</u>	Start time (from RC): <u>08:33:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>515k</u>	hTRIG3 rate <u>1336.7</u>	hTRIG4 rate <u>935.2</u>
$I_{beam}$ : <u>18</u> $\mu$ A			Stop time (from RC): <u>08:46:51</u>		hTRIG5 rate <u>149.8</u>	hTRIG6 rate <u>102.2</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>Final segment #: 0</u>	Events <u>80k</u> Charge <u>11.42</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>4.51</u> ( $\mu$ A)
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Run Number: <u>2786</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>0</u>	Start time (from RC): <u>09:17:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1200k</u>	hTRIG3 rate <u>2944.3</u>	hTRIG4 rate <u>2216.9</u>
$I_{beam}$ : <u>36</u> $\mu$ A			Stop time (from RC): <u>09:29</u>		hTRIG5 rate <u>799.7</u>	hTRIG6 rate <u>608.1</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>Final segment #: 0</u> <u>production 1/2</u> <u>codas platform disconnected, no end of run entry</u>	Events <u>250k</u> Charge <u>0</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8 %</u>	Max NPS anode current (single crystal) <u>5.38</u> ( $\mu$ A)
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Run Number: <u>2787</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>0</u>	Start time (from RC): <u>09:54:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1210k</u>	hTRIG3 rate <u>3002.2</u>	hTRIG4 rate <u>2242.8</u>
$I_{beam}$ : <u>36</u> $\mu$ A			Stop time (from RC): <u>10:51:11</u>		hTRIG5 rate <u>790.9</u>	hTRIG6 rate <u>611.1</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>Final segment #: 2</u> <u>production 1/2</u>	Events <u>1206k</u> Charge <u>70.95</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9 %</u>	Max NPS anode current (single crystal) <u>5.23</u> ( $\mu$ A)
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Run Number: <u>2788</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>0</u>	Start time (from RC): <u>10:58:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1200k</u>	hTRIG3 rate <u>2969.9</u>	hTRIG4 rate <u>2225.8</u>
$I_{beam}$ : <u>36</u> $\mu$ A			Stop time (from RC): <u>12:22:47</u>		hTRIG5 rate <u>786.8</u>	hTRIG6 rate <u>595.5</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>Final segment #: 4</u> <u>production 2/2</u>	Events <u>2281k</u> Charge <u>134.12</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9 %</u>	Max NPS anode current (single crystal) <u>5.38</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: 23/11/09  
yy mm dd

Initials: Hao

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-3

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.539 GeV

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

Beam position and angle on target:

HMS

$p$ : +0.5878  $\theta(TV)$ : 16.48  
From GUI Nearest 0.005

SHMS

$\theta(TV)$ : 34.02  
Nearest 0.005

NPS

$\theta =$  SHMS 17.72  
-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:

2789

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

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

Start time (from RC):  
12:25:24

Stop time (from RC):  
12:48:16

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

hTRIG1 rate  
1200k

hTRIG3 rate  
2920.6

hTRIG4 rate  
2183.2

hTRIG5 rate  
775.4

hTRIG6 rate  
590.7

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 1

Events 1159k  
Charge 39.91C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

2790

- 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: 3

Start time (from RC):  
12:54:40

Stop time (from RC):  
13:09:33

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

hTRIG1 rate  
963k

hTRIG3 rate  
2928

hTRIG4 rate  
2206.2

hTRIG5 rate  
638.9

hTRIG6 rate  
505.6

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 0

Events 60k  
Charge 18.23 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

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

Run Number:

2791

- 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: 0

Start time (from RC):  
13:13:30

Stop time (from RC):  
13:37:44

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

hTRIG1 rate  
747k

hTRIG3 rate  
2045.2

hTRIG4 rate  
1562.2

hTRIG5 rate  
393.2

hTRIG6 rate  
314.2

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 0

Events 379k  
Charge 27.87 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

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

Run Number:

2792

- 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):  
13:40:05

Stop time (from RC):  
14:28:29

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

hTRIG1 rate  
737k

hTRIG3 rate  
1978.6

hTRIG4 rate  
1500.7

hTRIG5 rate 378  
~~1978.6~~

hTRIG6 rate 301  
~~1500.7~~

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Final segment #: 3

Events 3455k  
Charge 49.56 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

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

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 09  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-3**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.539 GeV

Raster:  On  Off  
Size: 2 x 2 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

SHMS

NPS

p: +0.5878 θ(TV): 16.48  
From GUI Nearest 0.005

θ(TV): 34.02  
Nearest 0.005

θ = SHMS 17.72  
-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>2793</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>14:31:40</u> Stop time (from RC): <u>15:00:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>330k</u> hTRIG5 rate <u>135.6</u>	hTRIG3 rate <u>1022.1</u> hTRIG6 rate <u>113.6</u>	hTRIG4 rate <u>775.1</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>Final segment #: 0</u>	Events <u>166k</u> Charge <u>15.28 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.15</u> (μA)
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Run Number: <u>2794</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>15:05:54</u> Stop time (from RC): <u>15:32:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1370k</u> hTRIG5 rate <u>317.2</u>	hTRIG3 rate <u>1000.4</u> hTRIG6 rate <u>254.5</u>	hTRIG4 rate <u>773.3</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 checked="" type="checkbox"/>	Comments: <u>Final segment #: 0</u>	Events <u>371k</u> Charge <u>15.59 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.53</u> (μA)
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Run Number: <u>2795</u>	<input type="checkbox"/> LH2 10cm <input 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>0</u>	Start time (from RC): <u>15:44:35</u> Stop time (from RC): <u>16:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1930k</u> hTRIG5 rate <u>1761.2</u>	hTRIG3 rate <u>4158.6</u> hTRIG6 rate <u>1284.8</u>	hTRIG4 rate <u>2989.5</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>Final segment #: 5</u> <u>LD2 production 1/4</u>	Events <u>2521k</u> Charge <u>38.13 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>5.55</u> (μA)
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Run Number: <u>2796</u>	<input type="checkbox"/> LH2 10cm <input 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>0</u>	Start time (from RC): <u>17:11</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.9 MHz</u> hTRIG5 rate <u>1.8 kHz</u>	hTRIG3 rate <u>4 kHz</u> hTRIG6 rate <u>1.3 kHz</u>	hTRIG4 rate <u>3 kHz</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>FINAL SEG # : 4</u> <u>LD2 prod. 1/4</u>	Events <u>2028k</u> Charge <u>38.13 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.89</u> (μA)
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# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 09  
yy mm dd

Initials: FD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x50-3  
60

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.539 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +0.5878 θ(TV): 15.48  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 34.02  
Nearest 0.005

**NPS**  
θ = SHMS  
-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 = 458 Amp  
NPS Upstream Corr. I = OFF Amp

Run Number: <u>2797</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>7</u> PS5: <u>7</u> PS6: <u>0</u>	Start time (from RC): <u>17:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.9 MHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>3 kHz</u>
I <sub>beam</sub> : <u>21</u> μA			Stop time (from RC): <u>18:53</u>		hTRIG5 rate <u>1.8 kHz</u>	hTRIG6 rate <u>1.3 kHz</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>FINAL SEQ # 10</u> <u>LD2 prod. 2/4</u>		<u>4410 K</u> Events <u>66.7</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.03</u> (μA)		

Run Number: <u>2798</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>7</u> PS5: <u>7</u> PS6: <u>0</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>1.9 MHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>3 kHz</u>
I <sub>beam</sub> : <u>21</u> μA			Stop time (from RC): <u>20:01</u>		hTRIG5 rate <u>1.8 kHz</u>	hTRIG6 rate <u>1.3 kHz</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>FINAL SEQ # 10</u> <u>LD2 prod. 3/4</u>		<u>4556 K</u> Events <u>68.8</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>5.45</u> (μA)		

Run Number: <u>2799</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>7</u> PS5: <u>7</u> PS6: <u>0</u>	Start time (from RC): <u>20:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.9 MHz</u>	hTRIG3 rate <u>4.2 kHz</u>	hTRIG4 rate <u>2.9 kHz</u>
I <sub>beam</sub> : <u>21</u> μA			Stop time (from RC): <u>21:05</u>		hTRIG5 rate <u>1.6 kHz</u>	hTRIG6 rate <u>1.2 kHz</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>FINAL SEQ # 10</u> <u>LD2 prod. 4/4</u>		<u>4463 K</u> Events <u>68.8</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>5.15</u> (μA)		

Run Number: <u>2800</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>7</u> PS5: <u>7</u> PS6: <u>0</u>	Start time (from RC): <u>21:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.4 MHz</u>	hTRIG3 rate <u>2.8 kHz</u>	hTRIG4 rate <u>2 kHz</u>
I <sub>beam</sub> : <u>14</u> μA			Stop time (from RC): <u>21:28</u>		hTRIG5 rate <u>775 Hz</u>	hTRIG6 rate <u>584 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>FINAL SEQ # 10</u>		<u>670 K</u> Events <u>14.63</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>3.84</u> (μA)		

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 09  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

Kinematics: KinC\_x50\_3  
60

E<sub>beam</sub>: 10.54 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>0.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

HMS

p: +10.5878 θ(TV): 16.48  
From GUI Nearest 0.005

SHMS

θ(TV): 34.02  
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 = OFF Amp

NPS Upstream Corr.  
I = OFF Amp

Run Number:

2801

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

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

Start time (from RC):

21:29

Stop time (from RC):

21:54

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate  
0.6 MHz

hTRIG3 rate  
1.4 kHz

hTRIG4 rate  
1 kHz

hTRIG5 rate  
240 Hz

hTRIG6 rate  
200 Hz

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEG # 1 0

Events 273K  
Charge 9.86 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
3.41 (μA)

Run Number:

2802

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

PS1: ↑  
PS2: ↑  
PS3: 2  
PS4: ↑  
PS5: ↑  
PS6: ↑

Start time (from RC):

22:32

Stop time (from RC):

22:54

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate  
2 MHz

hTRIG3 rate  
4 kHz

hTRIG4 rate  
2.9 kHz

hTRIG5 rate  
2 kHz

hTRIG6 rate  
1.5 kHz

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEG # 4  
NPS SWEEPER MAGNET WAS OFF DURING THIS RUN!!

Events 1700K  
Charge 24.18 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
9.32 (μA)

Run Number:

2803

- 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):

22:55

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: FINAL SEG # :  
MCC FORGOT TO TURN ON THE SWEEPER MAGNET.

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
(μA)

Run Number:

2804

- 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):

23:04

Stop time (from RC):

23:47

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate  
1.3 MHz

hTRIG3 rate  
2.8 kHz

hTRIG4 rate  
2 kHz

hTRIG5 rate  
810 Hz

hTRIG6 rate  
650 Hz

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEG # : 7

Events 460K  
Charge 23.24 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
3.8 (μA)

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

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

Date: 23 / 11 / 09  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

Kinematics: KinC x50-3  
60

Purpose:

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.5A 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

SHMS

NPS

p: +5.878  $\theta$ (TV): 16.18  
From GUI Nearest 0.005

$\theta$ (TV): 34.02  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 168 Amp NPS Upstream Corr. I = OFF Amp NPS Upstream Corr. I = OFF Amp

Run Number:

2805

- 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: 0

Start time (from RC):

23:49

Stop time (from RC):

00:12:54

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

0.6 MHz

hTRIG3 rate

1.4 kHz

hTRIG4 rate

1 kHz

Data ok

Junk

I<sub>beam</sub>: 7  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 238K  
Charge 8.36 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.97%

Max NPS anode current (single crystal) 3.55 ( $\mu$ A)

Run Number:

2806

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

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

Start time (from RC):

00:18:05

Stop time (from RC):

00:40:19

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1900K

hTRIG3 rate

4176.4

hTRIG4 rate

2999.2

Data ok

Junk

I<sub>beam</sub>: 21  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Make up run for a 20 min run @ 21  $\mu$ A, coin-sparse, PS3=2

Events 1694K  
Charge 22.78 mC

Active trigger LiveTime fraction (NPS Scaler Gui) N/A

Max NPS anode current (single crystal) 5.00 ( $\mu$ A)

Run Number:

2807

- 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: 3

Start time (from RC):

00:43:35

Stop time (from RC):

00:53:31

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1610K

hTRIG3 rate

4108.0

hTRIG4 rate

3037.6

Data ok

Junk

I<sub>beam</sub>: 21  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 126K  
Charge 1.58 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 5.43 ( $\mu$ A)

Run Number:

2808

- 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: 0

Start time (from RC):

01:06:50

Stop time (from RC):

01:17:58

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1200K

hTRIG3 rate

2784.1

hTRIG4 rate

1873.4

Data ok

Junk

I<sub>beam</sub>: 36  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 289K  
Charge 19.64 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.98%

Max NPS anode current (single crystal) 8.59 ( $\mu$ A)

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

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

Date: 23 / 11 / 10  
 yy mm dd

Initials: PIL

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-3

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.529 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>0.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.5878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 34.02  
Nearest 0.005

$\theta$  = SHMS 17.72  
-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>2809</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>0</u>	Start time (from RC): <u>01:20:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>498k</u>	hTRIG3 rate <u>1366.0</u>	hTRIG4 rate <u>936.7</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A			Stop time (from RC): <u>01:30:50</u>		hTRIG5 rate <u>188.0</u>	hTRIG6 rate <u>144.3</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:	Events <u>88k</u> Charge <u>9.57</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.32</u> ( $\mu$ A)
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Run Number: <u>2810</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>0</u>	Start time (from RC): <u>01:42:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1200k</u>	hTRIG3 rate <u>2998.7</u>	hTRIG4 rate <u>2201.7</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A			Stop time (from RC): <u>03:12:24</u>		hTRIG5 rate <u>766.8</u>	hTRIG6 rate <u>608.8</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:	Events <u>1891k</u> Charge <u>104.24</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.98</u> ( $\mu$ A)
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Run Number: <u>2811</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>0</u>	Start time (from RC): <u>03:14:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1180k</u>	hTRIG3 rate <u>3075.9</u>	hTRIG4 rate <u>2261.9</u>
I <sub>beam</sub> : <u>36</u> $\mu$ A			Stop time (from RC): <u>04:18:26</u>		hTRIG5 rate <u>809.4</u>	hTRIG6 rate <u>594.6</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:	Events <u>1811k</u> Charge <u>100.42</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.39</u> ( $\mu$ A)
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Run Number: <u>2812</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>0</u>	Start time (from RC): <u>04:21:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>710k</u>	hTRIG3 rate <u>2012.2</u>	hTRIG4 rate <u>1488.1</u>
I <sub>beam</sub> : <u>24</u> $\mu$ A			Stop time (from RC): <u>04:44:11</u>		hTRIG5 rate <u>359.5</u>	hTRIG6 rate <u>308.2</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:	Events <u>308k</u> Charge <u>22.75</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.63</u> ( $\mu$ A)
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# p(e,e'γ) p Run Sheet

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

Date: 23/11/10  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-3

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.539 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>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS  
p: +0.5878 θ(TV): 16.48  
From GUI Nearest 0.005

SHMS  
θ(TV): 34.02  
Nearest 0.005

NPS  
θ = SHMS 17.72  
-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>2813</u> <u>2814</u> I <sub>beam</sub> : <u>12</u> μA	<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>0</u>	Start time (from RC): <u>04:48:48</u> Stop time (from RC): <u>04:51:11</u>	<input 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
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>DAB crashed.</u> <u>Run 2814-2816 are test runs</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		

Run Number: <u>2817</u> I <sub>beam</sub> : <u>12</u> μA	<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>0</u>	Start time (from RC): <u>05:11:40</u> Stop time (from RC): <u>05:33:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>320 K</u>	hTRIG3 rate <u>1052.3</u>	hTRIG4 rate <u>764.6</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:			Events <u>135K</u> Charge <u>13.13</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>3.46</u>		

Run Number: <u>2818</u> I <sub>beam</sub> : <u>36</u> μA	<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>2</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:38:06</u> Stop time (from RC): <u>06:00:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1160 K</u>	hTRIG3 rate <u>2849.8</u>	hTRIG4 rate <u>2321.6</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:			Events <u>1170K</u> Charge <u>31.22</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) (μA) <u>5.27</u>		

Run Number: <u>2819</u> I <sub>beam</sub> : <u>24</u> μA	<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>06:03:43</u> Stop time (from RC): <u>06:45:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>711 K</u>	hTRIG3 rate <u>2030.5</u>	hTRIG4 rate <u>1585.4</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>2447 K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) (μA) <u>4.13</u>		

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

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

Date: 23, 11, 10  
yy mm dd

Initials: PJL

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-3

**Purpose:**

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

HMS, field,  
current OK?  
yes  no

E<sub>beam</sub>: 10.539 GeV

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

Beam position and angle on target:

**HMS**  
p: +0.5878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 34.02  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.72  
-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>2820</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>0</u>	Start time (from RC): <u>06:49:17</u> Stop time (from RC): <u>07:11:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1490k</u>	hTRIG3 rate <u>1026.2</u>	hTRIG4 rate <u>786.8</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments: <u>No scalar reading in the first 3 min.</u>			Events <u>348k</u> Charge <u>14.05</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.45</u> ( $\mu$ A)		

Run Number: <u>2821</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>3</u>	Start time (from RC): <u>07:15:32</u> Stop time (from RC): <u>07:42:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>967k</u>	hTRIG3 rate <u>3023.6</u>	hTRIG4 rate <u>2264.4</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments: <u>No beam</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.27</u> ( $\mu$ A)		

Run Number: <u>2822</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>3</u>	Start time (from RC): <u>07:27:42</u> Stop time (from RC): <u>07:42:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>967k</u>	hTRIG3 rate <u>3023.6</u>	hTRIG4 rate <u>2264.4</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>36</u> $\mu$ A	Comments: _____			Events <u>65k</u> Charge <u>20.91</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.27</u> ( $\mu$ A)		

Run Number: <u>2823</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>07:50:00</u> Stop time (from RC): <u>09:03:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1890k</u>	hTRIG3 rate <u>4229.2</u>	hTRIG4 rate <u>3084.3</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>21</u> $\mu$ A	Comments: <u>max segment 10</u>			Events <u>461524</u> Charge <u>67.13m</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.89%</u>	Max NPS anode current (single crystal) <u>5.31</u> ( $\mu$ A)		

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

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

Date: 23 / 11 / 10  
yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x60-3

**Purpose:**

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

HMS, field,  
current OK?  
yes  no

E<sub>beam</sub>: 10.540 GeV

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: +/- -5.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 34.015  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.715  
-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>2824</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>-</u> PS5: <u>-</u> PS6: <u>0</u>	Start time (from RC): <u>09:05:35</u> Stop time (from RC): <u>11:38:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.7566</u>	hTRIG3 rate <u>4101.5</u>	hTRIG4 rate <u>3009.4</u>
I <sub>beam</sub> : <u>21</u> $\mu$ A	Comments: <u>max segment = 20</u>			Events <u>897305</u> Charge <u>24.3m C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.939%</u>	Max NPS anode current (single crystal) <u>5.08</u> ( $\mu$ A)	

Run Number: <u>2825</u> <u>2826</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 _____
I <sub>beam</sub> : _____ $\mu$ A	Comments: <u>Junk . DAQ Test</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) _____	Max NPS anode current (single crystal) _____ ( $\mu$ A)	

Run Number: <u>2828</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>+</u> PS2: <u>0</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>16:01</u> Stop 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>2 kHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>3 kHz</u>
I <sub>beam</sub> : _____ $\mu$ A	Comments: <u>LED Run</u> <u>coin_vld</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>5.15</u> ( $\mu$ A)	

Run Number: <u>2829</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>16:25</u> Stop time (from RC): <u>17:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2 kHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>3 kHz</u>
I <sub>beam</sub> : <u>21</u> $\mu$ A	Comments: <u>FINAL BEG # 11</u>			Events <u>4886k</u> <u>69.06</u> Charge <u>WC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.89</u> ( $\mu$ A)	

4.89

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 10  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 603

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.539 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

SHMS

NPS

p: +5.878 θ(TV): 16.48  
From GUI Nearest 0.005

θ(TV): 34.02  
Nearest 0.005

θ = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 428 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>2830</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>17:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.9 MHz</u>	hTRIG3 rate <u>4.3 kHz</u>	hTRIG4 rate <u>3 kHz</u>
I <sub>beam</sub> : <u>21</u> μA			Stop time (from RC): <u>18:34</u>		hTRIG5 rate <u>1.9 kHz</u>	hTRIG6 rate <u>1.4 kHz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: FINAL SEG # 10  
Events 45282 Charge 65.27 μC  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%  
Max NPS anode current (single crystal) 4.77 (μA)

Run Number: <u>2831</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>18:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.4 MHz</u>	hTRIG3 rate <u>2.8 kHz</u>	hTRIG4 rate <u>2 kHz</u>
I <sub>beam</sub> : <u>14</u> μA			Stop time (from RC): <u>18:57</u>		hTRIG5 rate <u>850 kHz</u>	hTRIG6 rate <u>650 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: FINAL SEG # 1  
Events 54212 Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 3.19 (μA)

Run Number: <u>2832</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>18:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.6 MHz</u>	hTRIG3 rate <u>1.5 kHz</u>	hTRIG4 rate <u>1 kHz</u>
I <sub>beam</sub> : <u>7</u> μA			Stop time (from RC): <u>19:19</u>		hTRIG5 rate <u>267 kHz</u>	hTRIG6 rate <u>187 kHz</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: FINAL SEG # 0  
Events 233K Charge 8.13 μC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 1.82 (μA)

Run Number: <u>2833</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>2</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>+</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>2 MHz</u>	hTRIG3 rate <u>4 kHz</u>	hTRIG4 rate <u>3 kHz</u>
I <sub>beam</sub> : <u>21</u> μA			Stop time (from RC): <u>19:44</u>		hTRIG5 rate <u>1.8 kHz</u>	hTRIG6 rate <u>1.3 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: FINAL SEG # 3  
Events 1784K Charge 24.13 μC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 4.47 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 10  
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\_x50-3

E<sub>beam</sub>: 10.59 GeV

Raster:  On  Off  
Size: 2x2

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: +0.5878 θ(TV): 16.48  
From GUI Nearest 0.005

SHMS

θ(TV): 34.02  
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 = OFF Amp

NPS Upstream Corr.  
I = OFF Amp

Run Number:

2834

- 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):

19:45

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.4 MHz

hTRIG3 rate

3 kHz

hTRIG4 rate

2 kHz

I<sub>beam</sub>: 14 μA

Stop time (from RC):

20:28

hTRIG5 rate

850 Hz

hTRIG6 rate

650 Hz

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEG # 7

Events 4825k  
28-28  
Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 3.14 (μA)

Run Number:

2835

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

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

Start time (from RC):

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

I<sub>beam</sub>: 7 μA

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: DAD ISSUE. THE RUN NEVER STARTED!!

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number:

2836

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

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

Start time (from RC):

20:34

Stop time (from RC):

20:50

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1 MHz

hTRIG3 rate

1.4 kHz

hTRIG4 rate

1 kHz

I<sub>beam</sub>: 7 μA

hTRIG5 rate

330 Hz

hTRIG6 rate

254 Hz

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEG # 1

Events 361k  
3-7  
Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 114 (μA)

Very high!! called RC

Run Number:

2837

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

PS1: +  
PS2: +  
PS3: +  
PS4: +  
PS5: +  
PS6: 3

Start time (from RC):

21:01

Stop time (from RC):

21:13

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.7 MHz

hTRIG3 rate

4.2 kHz

hTRIG4 rate

3 kHz

I<sub>beam</sub>: 21 μA

hTRIG5 rate

1.5 kHz

hTRIG6 rate

1.1 kHz

Data ok

Junk

coin\_sparse   
oin   
coin\_sparse\_low

Comments: FINAL SEG # 1

Events 136k  
1-83  
Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 114 (μA)

Reading values from back column

# p(e,e'γ) p Run Sheet

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

Date: 23/11/10  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-3**

Purpose:

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS

SHMS

NPS

p: +5.878 θ(TV): 16.48  
From GUI Nearest 0.005

θ(TV): 84.02  
Nearest 0.005

θ = SHMS  
-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 = OFF Amp

NPS Upstream Corr.  
I = OFF Amp

Run Number:  
2838

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

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

Start time (from RC):  
21:22

Stop time (from RC):  
21:34

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

hTRIG1 rate  
1.1 MHz

hTRIG3 rate  
2.5 kHz

hTRIG4 rate  
1.8 kHz

hTRIG5 rate  
788 Hz

hTRIG6 rate  
508 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEQ # 0

Events 216k  
Charge 14.4 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
8.07 (μA)

Run Number:  
2839

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

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

Start time (from RC):  
21:35

Stop time (from RC):  
21:47

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

hTRIG1 rate  
0.5 MHz

hTRIG3 rate  
1.4 kHz

hTRIG4 rate  
0.18 kHz

hTRIG5 rate  
200 Hz

hTRIG6 rate  
150 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEQ # 0

Events 105k  
Charge 11.42 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
4.23 (μA)

Run Number:  
2840

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

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

Start time (from RC):  
21:53

Stop time (from RC):  
23:06

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

hTRIG1 rate  
1.2 MHz

hTRIG3 rate  
3 kHz

hTRIG4 rate  
2.3 kHz

hTRIG5 rate  
815 Hz

hTRIG6 rate  
600 Hz

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FINAL SEQ # 3

Events 1306k  
Charge 101.97 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
3.30 (μA)

Run Number:  
2841

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

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

Start time (from RC):  
23:07

Stop time (from RC):  
00:08:36

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

hTRIG1 rate  
1.2 MHz

hTRIG3 rate  
3 kHz

hTRIG4 rate  
2.3 kHz

hTRIG5 rate  
770 Hz

hTRIG6 rate  
612 Hz

- Data ok
- Junk

coin\_sparse   
oin   
coin\_sparse\_low

Comments:

Events 2035k  
Charge 110.5 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
4.67 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 23/11/10  
 yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x00-3

**Purpose:**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +10 5.878 θ(TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 34.02  
Nearest 0.005

**NPS**  
 θ = SHMS 17.72  
 -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 = OFF Amp  
 NPS Upstream Corr. I = OFF Amp

Run Number: <u>2842</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>0</u>	Start time (from RC): <u>00:11:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>754 K</u>	hTRIG3 rate <u>2043.9</u>	hTRIG4 rate <u>1504.6</u>
I <sub>beam</sub> : <u>24</u> μA	Comments:		Stop time (from RC): <u>00:31:53</u>		hTRIG5 rate <u>382.2</u>	hTRIG6 rate <u>297.7</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"/>			Events <u>332 K</u> Charge <u>24.77</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>2.97</u> (μA)		

Run Number: <u>2843</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>0</u>	Start time (from RC): <u>00:35:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>370 K</u>	hTRIG3 rate <u>1037.1</u>	hTRIG4 rate <u>797.8</u>
I <sub>beam</sub> : <u>12</u> μA	Comments:		Stop time (from RC): <u>00:56:38</u>		hTRIG5 rate <u>132.3</u>	hTRIG6 rate <u>108.9</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"/>			Events <u>140 K</u> Charge <u>13.78</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>2.00</u> (μA)		

Run Number: <u>2844</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>2</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>00:59:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1280 K</u>	hTRIG3 rate <u>3122.8</u>	hTRIG4 rate <u>2218.6</u>
I <sub>beam</sub> : <u>36</u> μA	Comments:		Stop time (from RC): <u>01:25:04</u>		hTRIG5 rate <u>885.6</u>	hTRIG6 rate <u>665.7</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"/>			Events <u>1075 K</u> Charge <u>36.93</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>4.99</u> (μA)		

Run Number: <u>2845</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>01:28:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>744 K</u>	hTRIG3 rate <u>2050.3</u>	hTRIG4 rate <u>1475.1</u>
I <sub>beam</sub> : <u>24</u> μA	Comments:		Stop time (from RC): <u>02:09:52</u>		hTRIG5 rate <u>369.5</u>	hTRIG6 rate <u>306.6</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"/>			Events <u>358 K</u> Charge <u>51.55</u> μC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>3.52</u> (μA)		

# p(e,e'γ) p Run Sheet

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

Date: 29/11/11  
yy mm dd

Initials: PJC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-3

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 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>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

p: +0.5878 θ(TV): 16.48  
From GUI Nearest 0.005

SHMS

θ(TV): 34.015  
Nearest 0.005

NPS

θ = SHMS 17.715  
-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:

2846

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

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

Start time (from RC):

02:12:57

Stop time (from RC):

02:33:48

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

hTRIG1 rate

1690K

hTRIG3 rate

1039.8

hTRIG4 rate

779.0

hTRIG5 rate

385.7

hTRIG6 rate

306.3

- Data ok
- Junk

coin\_sparse

coin

coin\_sparse\_low

Comments: High current @ column 0-3 of NPS.

Events 377K  
Charge 13.70 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 114.37 (μA)

Run Number:

2847

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

PS1: -1  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: -1  
PS6: 3

Start time (from RC):

02:37:29

Stop time (from RC):

02:49:25

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

hTRIG1 rate

985K

hTRIG3 rate

2974.6

hTRIG4 rate

2269.4

hTRIG5 rate

695.3

hTRIG6 rate

532.7

- Data ok
- Junk

coin\_sparse

coin

coin\_sparse\_low

Comments: High current @ column 0-3 of NPS

Events 60K  
Charge 19.59 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 114.06 (μA)

Run Number:

2848

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

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

Start time (from RC):

02:59:56

Stop time (from RC):

04:02:25

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

hTRIG1 rate

1950K

hTRIG3 rate

4335.4

hTRIG4 rate

3119.6

hTRIG5 rate

1896.3

hTRIG6 rate

1376.1

- Data ok
- Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 4556K  
Charge 67.22 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.83%

Max NPS anode current (single crystal) 4.15 (μA)

Run Number:

2849

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

PS1: -1  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: 0.7  
PS6: 0.7

Start time (from RC):

04:04:36

Stop time (from RC):

05:06:43

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

hTRIG1 rate

1960K

hTRIG3 rate

4361.5

hTRIG4 rate

2937.2

hTRIG5 rate

1691.8

hTRIG6 rate

1436.4

- Data ok
- Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 4581K  
Charge 67.99 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.85%

Max NPS anode current (single crystal) 4.95 (μA)



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

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

Date: 23/11/11  
yy mm dd

Initials: PJC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-3

### Purpose:

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

HMS, field,  
current OK?

yes  no

$E_{beam}$ : 10.59 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>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

HMS

$p$ : +0.5878  $\theta(TV)$ : 16.48  
From GUI Nearest 0.005

SHMS

$\theta(TV)$ : 34.015  
Nearest 0.005

NPS

$\theta =$  SHMS 17.715  
-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:

2850

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

PS1: 7  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: 0  
PS6: 7

Start time (from RC):

05:09:03

Stop time (from RC):

06:12:02

Settings  
Verified?

HV OK?

50k OK?

hTRIG1 rate

1920K

hTRIG3 rate

4310.5

hTRIG4 rate

305.6

$I_{beam}$ : 21  $\mu A$

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4676K  
Charge 69.35 C

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
99.90%

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

Run Number:

2851

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

PS1: 7  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: -1  
PS6: 0

Start time (from RC):

06:15:14

Stop time (from RC):

06:38:33

Settings  
Verified?

HV OK?

50k OK?

hTRIG1 rate

1920K

hTRIG3 rate

4292.6

hTRIG4 rate

3058.1

$I_{beam}$ : 21  $\mu A$

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Stopped due to beam down  
Took ~3min of data in this run

Events 252K  
Charge 2.78 C

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
99.87%

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

Run Number:

2852

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

PS1: 7  
PS2: -1  
PS3: -1  
PS4: -1  
PS5: 0  
PS6: 0

Start time (from RC):

07:13:13

Stop time (from RC):

08:20:40

Settings  
Verified?

HV OK?

50k OK?

hTRIG1 rate

1920K

hTRIG3 rate

4223.0

hTRIG4 rate

3052.0

$I_{beam}$ : 21  $\mu A$

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4.9M  
Charge 74 nC

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
100%

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

Run Number:

2853

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

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

Start time (from RC):

08:24:46

Stop time (from RC):

08:45:22

Settings  
Verified?

HV OK?

50k OK?

hTRIG1 rate

1.37e6

hTRIG3 rate

2830

hTRIG4 rate

2080

$I_{beam}$ : 14  $\mu A$

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

NPS 4, 12 will discuss.

Events 795K  
Charge \_\_\_\_\_ C

Active trigger LiveTime  
fraction (NPS Scaler Gui)  
100%

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

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

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

Date: 12/11/11  
yy mm dd

Initials: JPC

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-3

Purpose:

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.539 GeV

Raster:  On  Off  
Size: 2x2  $\mu\text{m}^2$

Beam position and angle on target:

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

HMS

SHMS

NPS

p: +/- 0.5828  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 34.018  
Nearest 0.005

$\theta$  = SHMS 17.718  
-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>2854</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>08:48:02</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>7</u> $\mu\text{A}$			Stop time (from RC): <u>08:53:07</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"/>	Comments: <u>Run Ended for Access.</u>	Events <u>53K</u> Charge <u>1.89C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )
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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. <input type="checkbox"/>	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> : _____ $\mu\text{A}$			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) ( $\mu\text{A}$ )
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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. <input type="checkbox"/>	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> : _____ $\mu\text{A}$			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) ( $\mu\text{A}$ )
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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. <input type="checkbox"/>	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> : _____ $\mu\text{A}$			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> oin <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) ( $\mu\text{A}$ )
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# p(e,e') p Run Sheet

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

Date: 27 / 11 / 11  
yy mm dd

Initials: JDC

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

*Elastic S-Pass Calc*

**Purpose:**

- Production
- Test
- Optics
- Other: *Elastic Calc*

HMS, field,  
current OK?

*Logbook 4219226*  
yes  eh. no

E<sub>beam</sub>: 10588 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**

p: +/- 4.0872 θ(TV): 29.855  
From GUI Nearest 0.005

**SHMS**

θ(TV): 32.88  
Nearest 0.005

**NPS**

θ = SHMS ~~16.58~~ ← 16.58  
-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:

2855

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

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

Start time (from RC):

11:39:25

Stop time (from RC):

12:41:31

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.77e5

hTRIG5 rate

58.2

hTRIG3 rate

159.5

hTRIG6 rate

42.2

hTRIG4 rate

45.7

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 522K  
Charge 1178C

Active trigger LiveTime fraction (NPS Scaler Gui)  
N/A

Max NPS anode current (single crystal) (μA)  
4.42

Run Number:

2856

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

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

Start time (from RC):

12:43:58

Stop time (from RC):

13:55:21

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.83e5

hTRIG5 rate

52.4

hTRIG3 rate

151.8

hTRIG6 rate

42.2

hTRIG4 rate

46.9

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 231150  
Charge 675C

Active trigger LiveTime fraction (NPS Scaler Gui)  
N/A

Max NPS anode current (single crystal) (μA)  
4.5

Run Number:

2857

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

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

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)

Run Number:

I<sub>beam</sub>: \_\_\_\_\_ μA

- 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

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)

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

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

Date: 23 / 11 / 11  
yy mm dd

Initials: gll

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

*Elastic  $\Sigma$  Pass Calc*

E<sub>beam</sub>: 10.588 GeV

Raster:  On  Off  
Size: 2x2 mm

**Purpose:**

- Production  
 Test  
 Optics  
 Other: *Elastic Calc*

HMS, field,  
current OK?  
*Logbook: 4219226*  
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: +/- 4.0872  $\theta$ (TV): 2.9855  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 31.845  
Nearest 0.005

**NPS**

$\theta$  = SHMS 15.545  
-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:

2857

- 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):  
14:11:35

Stop time (from RC):  
14:48

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
2.35e5

hTRIG3 rate  
153.6

hTRIG4 rate  
47.9

hTRIG5 rate  
56.4

hTRIG6 rate  
43.2

- Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: *Run stopped to check replay*

Events 104988  
Charge 66.97 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
N/A

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

Run Number:

2858

- 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):  
14:45:52

Stop time (from RC):  
15:16:03

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
2.42e5

hTRIG3 rate  
158.8

hTRIG4 rate  
47.9

hTRIG5 rate  
51.2

hTRIG6 rate  
42.5

- Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: *2nd half of another run*

Events 100K  
Charge 64.2 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
N/A

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

Run Number:

2859

- 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):  
15:17:41

Stop time (from RC):  
16:28

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
2.42e5

hTRIG3 rate  
157.3

hTRIG4 rate  
46.4

hTRIG5 rate  
55.4

hTRIG6 rate  
43.0

- Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 0.23 M  
Charge 0.14 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
N/A

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

Run Number:

2860

- 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):  
16:35

Stop time (from RC):  
17:39

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
2.40x105

hTRIG3 rate  
155

hTRIG4 rate  
47

hTRIG5 rate  
55

hTRIG6 rate  
42

- Data ok  
 Junk

coin\_sparse   
oin   
coin\_sparse\_low

Comments:

Events 0.21 M  
Charge 0.13 C

Active trigger LiveTime fraction (NPS Scaler Gui)  
N/A 100%

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

# p(e,e') p Run Sheet

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

Date: 23 / 11 / 21  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*elastic calibration*

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.539 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: 4.087 (TV): 29.86  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.83  
Nearest 0.005

**NPS**  
 θ = SHMS 14.53  
 -16.30° Nearest 0.005

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

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

<b>Run Number:</b> 2861	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 17:40 Stop time (from RC): 18:51	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 3.3 x 10 <sup>5</sup> hTRIG5 rate 54	hTRIG3 rate 152.3 hTRIG6 rate 42	hTRIG4 rate 47 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 40 μA	Comments:		Events 0.23 M Charge 0.14 C	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 7.95 (μA)		

<b>Run Number:</b> 2862	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 18:58 Stop time (from RC): 20:07	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.8 x 10 <sup>5</sup> hTRIG5 rate 54	hTRIG3 rate 155 hTRIG6 rate 42	hTRIG4 rate 47 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 40 μA	Comments:		Events 0.22 M Charge 0.14 C	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 3.90 (μA)		

<b>Run Number:</b> 2863	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 20:09 Stop time (from RC): 20:56	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.86 x 10 <sup>5</sup> hTRIG5 rate 53	hTRIG3 rate 153 hTRIG6 rate 42	hTRIG4 rate 46 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 40 μA	Comments: <i>Half an hour run.</i>		Events 0.14 M Charge 0.07 C	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 4.04 (μA)		

<b>Run Number:</b> 2864	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 20:58 Stop time (from RC): 21:35	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.81 x 10 <sup>5</sup> hTRIG5 rate 55	hTRIG3 rate 160 hTRIG6 rate 42	hTRIG4 rate 48 <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : 40 μA	Comments: <i>Half an hour run.</i>		Events 0.19 M Charge 0.08 C	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 3.88 (μA)		

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

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

Date: 23/11/11  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
Elastic calibration

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.539 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**  
 $\phi$  = -4.087 (TV): 29.86  
From GUI Nearest 0.005

**SHMS**  
 $\theta$  (TV): 31.85  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 15.55  
-16.30° Nearest 0.005

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

Run Number: <u>2865</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. <input type="checkbox"/>	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>21:44</u> <del>20:58</del> 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>2.5x10<sup>5</sup></u>	hTRIG3 rate <u>163</u>	hTRIG4 rate <u>48</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:			Events <u>0.26M</u> Charge <u>0.13C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>5.7</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>2866</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. <input type="checkbox"/>	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>23:10</u> Stop 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>2.5x10<sup>5</sup></u>	hTRIG3 rate <u>152</u>	hTRIG4 rate <u>49</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments: <u>Beam off at 00:10</u> <u>end run McCall, raster issue</u>			Events <u>0.2M</u> Charge <u>0.11C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>5.37</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>2867</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. <input type="checkbox"/>	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>05:17</u> Stop time (from RC): <u>06:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.5x10<sup>5</sup></u>	hTRIG3 rate <u>154</u>	hTRIG4 rate <u>47</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:			Events <u>0.23M</u> Charge <u>0.142</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.7</u> ( $\mu$ A)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

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. <input type="checkbox"/>	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
I <sub>beam</sub> : _____ $\mu$ A	Comments:			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	
coin_sparse <input 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: 23/11/12  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*Elastic Calibration*

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.539 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 $\theta = \text{①} - 4.0871$   $\theta(\text{TV}) = 29.86$   
From GUI Nearest 0.005

**SHMS**  
 $\theta(\text{TV}) = 30.83$   
Nearest 0.005

**NPS**  
 $\theta = \text{SHMS } 14.53$   
 $-16.30^\circ$  Nearest 0.005

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

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

Run Number: 2868  
 I<sub>beam</sub>: 40  $\mu\text{A}$   
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 06:33  
 Stop time (from RC): 06:48  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: X hTRIG3 rate: \_\_\_\_\_ hTRIG4 rate: \_\_\_\_\_  
 hTRIG5 rate: X hTRIG6 rate: \_\_\_\_\_  
 Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: *Eudrun only 42k evts*  
*Beam dies at 06:40*  
 Events X Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 9.0 ( $\mu\text{A}$ )

Run Number: 2869  
 I<sub>beam</sub>: 40  $\mu\text{A}$   
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 06:54  
 Stop time (from RC): 07:32  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate:  $3.8 \times 10^5$  hTRIG3 rate: 154 hTRIG4 rate: 48  
 hTRIG5 rate: 57 hTRIG6 rate: 42  
 Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: *ran 50k replays*  
*about 15 min of no beam.*  
 Events 113800 Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 5.5 ( $\mu\text{A}$ )

Run Number: 2870  
 I<sub>beam</sub>: 40  $\mu\text{A}$   
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 07:45  
 Stop time (from RC): 08:18  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate:  $3.3 \times 10^5$  hTRIG3 rate: 145 hTRIG4 rate: 48  
 hTRIG5 rate: 58 hTRIG6 rate: 42  
 Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: *weird raster pattern*  
*(already documented)*  
 Events 1095k Charge 14 MC  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 7.5 ( $\mu\text{A}$ )

Run Number: 2871  
 I<sub>beam</sub>: 40  $\mu\text{A}$   
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.  
 PS1: - PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 08:19  
 Stop time (from RC): 09:23  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate:  $3.27 \times 10^5$  hTRIG3 rate: 165 hTRIG4 rate: 48  
 hTRIG5 rate: 59 hTRIG6 rate: 42  
 Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: *RID block 364 :C*  
 Events 2021k Charge 131 MC  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) 7.6 ( $\mu\text{A}$ )

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

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

Date: 23/11/12  
yy mm dd

Initials: EF

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

*Position test*

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

- Production
- Test
- Optics
- Other: *Position*

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>0.69</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**

p: 0-4.637  $\theta$ (TV): 16.43  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 28.41  
Nearest 0.005

**NPS**

$\theta$  = SHMS 12.11  
-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:

2872

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

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

Start time (from RC):

10:00

Stop time (from RC):

11:11

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

hTRIG1 rate

6.22.10<sup>5</sup>

hTRIG3 rate

6648

hTRIG4 rate

1664

hTRIG5 rate

889

hTRIG6 rate

254

- Data ok
- Maybe?  $\rightarrow$  *yes*
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: No pions reconstructed?

Events 912k  
Charge 12.5nC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 1.5 (?) ( $\mu$ A)

Run Number:

2873

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

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

Start time (from RC):

11:18

Stop time (from RC):

11:41

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

hTRIG1 rate

7.63.10<sup>5</sup>

hTRIG3 rate

11332

hTRIG4 rate

2632

hTRIG5 rate

2339

hTRIG6 rate

591

- Data ok
- Maybe?  $\rightarrow$  *yes*
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: No beam 12 min into run  
No pions reconstructed?

Events 466k  
Charge 12.6nC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.926%

Max NPS anode current (single crystal) 10 (4) ( $\mu$ A)

Run Number:

2874

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

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

Start time (from RC):

12:28

Stop time (from RC):

13:20

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

hTRIG1 rate

1.06.10<sup>6</sup>

hTRIG3 rate

10.9 kHz<sub>2</sub>

hTRIG4 rate

2.7 kHz<sub>2</sub>

hTRIG5 rate

2.4 kHz<sub>2</sub>

hTRIG6 rate

607 Hz<sub>2</sub>

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 49 min beam.

Events 1.79M  
Charge 17.6nC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.967

Max NPS anode current (single crystal) 13.5 (6) ( $\mu$ A)

Run Number:

I<sub>beam</sub>:       $\mu$ 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:     

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: 23/11/12  
yy mm dd

Initials: GF

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
Elastic 5 pass.

**Purpose:**

- Production
- Test
- Optics
- Other: Elastic calibration

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.54 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:		
3H07C	X	Y
<u>0.71</u> mm	<u>0.30</u> mm	
Nomin:		

**HMS**  
 $\theta(\pm)$ : 4.0872  $\theta(TV)$ : 29.86  
From GUI Nearest 0.005

**SHMS**  
 $\theta(TV)$ : 32.875  
Nearest 0.005

**NPS**  
 $\theta =$  SHMS 16.575  
-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: 2875  
I<sub>beam</sub>: 40  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>14:02</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2625.10<sup>s</sup></u>	hTRIG3 rate: <u>165</u>	hTRIG4 rate: <u>46.2</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>15:03</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>56.7</u>	hTRIG6 rate: <u>42.0</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>-1</u>					
<input type="checkbox"/> C 0.5% r.l.l.	PS5: <u>0</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse   
coin   
coin\_sparse\_low

Comments: SHMS = 32.88

Events 194k Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 1.65 ( $\mu$ A)  
Charge 17mC

Run Number: 2876  
I<sub>beam</sub>: 40  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>15:03</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.28.10<sup>s</sup></u>	hTRIG3 rate: <u>165.147</u>	hTRIG4 rate: <u>48.9</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>16:12:24</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>57.2</u>	hTRIG6 rate: <u>41.0</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>-1</u>					
<input type="checkbox"/> C 0.5% r.l.l.	PS5: <u>0</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse   
coin   
coin\_sparse\_low

Comments: SHMS = 32.88

Events 222112 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 1.71 ( $\mu$ A)  
Charge 139.55  $\mu$ C

Run Number: 2877  
I<sub>beam</sub>: 40  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-</u>	Start time (from RC): <u>16:23:15</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.98e5</u>	hTRIG3 rate: <u>167.6</u>	hTRIG4 rate: <u>47.2</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-</u>	Stop time (from RC): <u>17:26:14</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>57.2</u>	hTRIG6 rate: <u>43.5</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>-</u>					
<input type="checkbox"/> C 0.5% r.l.l.	PS5: <u>0</u>					
<input type="checkbox"/>	PS6: <u>-</u>					

coin\_sparse   
coin   
coin\_sparse\_low

Comments: SHMS = 31.85 ~only 45 min beam on

Events 195188 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 2.03 ( $\mu$ A)  
Charge 94.08  $\mu$ C

Run Number: 2878  
I<sub>beam</sub>: 40  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-</u>	Start time (from RC): <u>19:28:06</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>3.08e5</u>	hTRIG3 rate: <u>164.6</u>	hTRIG4 rate: <u>49.4</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-</u>	Stop time (from RC): <u>20:51:05</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>57.9</u>	hTRIG6 rate: <u>41.7</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>-</u>					
<input type="checkbox"/> C 0.5% r.l.l.	PS5: <u>0</u>					
<input type="checkbox"/>	PS6: <u>-</u>					

coin\_sparse   
coin   
coin\_sparse\_low

Comments: SHMS = 31.85 ~1h 20 min

Events 279862 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 2.18 ( $\mu$ A)  
Charge 172.52  $\mu$ C

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

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

Date: 23/11/12  
yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

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

*Elastic 5 pass*

E<sub>beam</sub>: 10.54 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>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS

p: +/- +4.0872  $\theta$ (TV): 29.86  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 30.83  
Nearest 0.005

NPS

$\theta$  = SHMS 14.53  
-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:

2879

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

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

Start time (from RC):

20:58:40

Stop time (from RC):

22:05:45

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

4.16e5

hTRIG5 rate

56.9

hTRIG3 rate

158.3

hTRIG6 rate

42.0

hTRIG4 rate

49.4

Data ok

Junk

I<sub>beam</sub>: 40  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

SHMS = 30.83

Events 223228  
Charge 36.56 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 2.44 ( $\mu$ A)

Run Number:

2880

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

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

Start time (from RC):

22:06:53

Stop time (from RC):

22:54:22

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

4.15e5

hTRIG5 rate

56

hTRIG3 rate

158.6

hTRIG6 rate

41.6

hTRIG4 rate

45.7

Data ok

Junk

I<sub>beam</sub>: 40  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

SHMS = 30.83 ~45 min beam on time

Alarm HMS Dipole

Events 161907  
Charge 98.46 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 2.78 ( $\mu$ A)

Run Number:

2881

- 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):

4:05

Stop time (from RC):

04:29

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

3.3x10<sup>5</sup>

hTRIG5 rate

60

hTRIG3 rate

165

hTRIG6 rate

43

hTRIG4 rate

46

Data ok

Junk

I<sub>beam</sub>: 40  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

SHMS = 30.83

Events 75077  
Charge 41.46 C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 3.0 ( $\mu$ A)

Run Number:

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

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

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   
oin   
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: 23/11/13  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*Elastic 5 pass*

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.54 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  
p: -4.0872  $\theta$ (TV): 29.86  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 31.85<sup>o</sup>  
Nearest 0.005

NPS  
 $\theta$  = SHMS 15.55<sup>o</sup>  
-16.30<sup>o</sup> 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>2882</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>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>04:44</u> Stop time (from RC): <u>05:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3x10<sup>5</sup></u>	hTRIG3 rate <u>174</u>	hTRIG4 rate <u>46</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A					hTRIG5 rate <u>52</u>	hTRIG6 rate <u>62</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: log # 4219864, hhuang  
new HV settings  
Events 234180  
Charge 12.5 mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2 ( $\mu$ A)

Run Number: <u>2883</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>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>05:59</u> Stop time (from RC): <u>07:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3x10<sup>5</sup></u>	hTRIG3 rate <u>156</u>	hTRIG4 rate <u>48</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A					hTRIG5 rate <u>56</u>	hTRIG6 rate <u>42</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments:  
Events 205405  
Charge 126.89 mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2 ( $\mu$ 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.i.	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
I <sub>beam</sub> : _____ $\mu$ A					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) ( $\mu$ 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.i.	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
I <sub>beam</sub> : _____ $\mu$ A					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) ( $\mu$ A)

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

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

Date: 13/11/13  
yy mm dd

Initials: KA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*elastic cross B*

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.54 GeV

Raster:  On  Off  
 Size: 2x2  $\mu\text{m}^2$

Beam position and angle on target:

**HMS**  
 p: -4.0871  $\theta$ (TV): 29.86<sup>o</sup>  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 32.89<sup>o</sup>  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 16.58<sup>o</sup>  
-16.30<sup>o</sup> 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 = 0 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>2884</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>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>07:09</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>5</sup></u>	hTRIG3 rate <u>160</u>	hTRIG4 rate <u>45</u>
I <sub>beam</sub> : <u>40</u> $\mu\text{A}$			Stop time (from RC): <u>08:09</u>		hTRIG5 rate <u>55</u>	hTRIG6 rate <u>43</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>195.4</u> k Charge <u>100</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.5</u> $\mu\text{A}$		

Run Number: <u>2885</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>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>08:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.39.10<sup>5</sup></u>	hTRIG3 rate <u>159.6</u>	hTRIG4 rate <u>49.6</u>
I <sub>beam</sub> : <u>40</u> $\mu\text{A}$			Stop time (from RC): <u>08:35</u>		hTRIG5 rate <u>54.3</u>	hTRIG6 rate <u>40.9</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>Stopped when MCC took beam away.</u>		Events <u>82</u> k Charge <u>52</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.74</u> $\mu\text{A}$		

Run Number: <u>2886</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 <input checked="" type="checkbox"/> carbon Hole	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>15:26:27</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>10</u> $\mu\text{A}$			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Beam centering 10 <math>\mu\text{A}</math></u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )		

Run Number: <u>2887</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: _____ 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> : _____ $\mu\text{A}$			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>junk</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )		

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

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

Date: 11/13/23  
yy mm dd

Initials: JR

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>: \_\_\_\_\_ GeV

Raster:  On  Off  
Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

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

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

Run Number: 2888  
I<sub>beam</sub>: 0  $\mu$ A

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

PS1:  $\phi$   
PS2:  $\phi$   
PS3:  $\phi$   
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: DAC=50 LED run col 12-14

Events: 39k Charge: \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA) \_\_\_\_\_

Run Number: 2889  
I<sub>beam</sub>: \_\_\_\_\_  $\mu$ A

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

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: LED run col 12-14 DAC=45

Events: 39k Charge: \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA) \_\_\_\_\_

Run Number: 2890  
I<sub>beam</sub>: \_\_\_\_\_  $\mu$ A

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

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: LED run col 15-17 DAC=50

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

Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA) \_\_\_\_\_

Run Number: 2891  
I<sub>beam</sub>: \_\_\_\_\_  $\mu$ A

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

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: LED run col 18-20 DAC=50

Events: \_\_\_\_\_ 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: 11/13/23  
yy mm dd

Initials: JR

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>: \_\_\_\_\_ GeV

Raster:  On  Off  
Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

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

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

<b>Run Number:</b> <u>2892</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
I <sub>beam</sub> : _____ $\mu$ A					hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED col 21-23 DACSO

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

<b>Run Number:</b> <u>2893</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
I <sub>beam</sub> : _____ $\mu$ A					hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED col 24-26 DACSO

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

<b>Run Number:</b> <u>2894</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
I <sub>beam</sub> : _____ $\mu$ A					hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED col 27-29 DACSO

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

<b>Run Number:</b> <u>2895</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
I <sub>beam</sub> : _____ $\mu$ A					hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED col 3-5 DACSO

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: 11/13/23  
yy mm dd

Initials: JK

Use a separate sheet for each configuration.

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

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

HMS, field, current OK?  
 yes  no

$E_{beam}$ : \_\_\_\_\_ GeV

Raster:  On  Off  
 Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

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

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

<b>Run Number:</b> <u>2894</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
$I_{beam}$ : _____ $\mu A$					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 col 9-11 DAC=50</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )
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<b>Run Number:</b>	<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
$I_{beam}$ : _____ $\mu A$					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) ( $\mu A$ )
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<b>Run Number:</b>	<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
$I_{beam}$ : _____ $\mu A$					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) ( $\mu A$ )
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<b>Run Number:</b>	<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
$I_{beam}$ : _____ $\mu A$					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) ( $\mu A$ )
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# p(e,e' $\gamma$ )p Run Sheet

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

Date: 23/11/14  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*4 pass elast. c calib*

**Purpose:**

- Production
- Test
- Optics
- Other: *COMMISSION*

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8.483 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>1.33</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	

**HMS**  
p: + 4.120  $\theta$ (TV): 27.615  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 38.00  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 21.70  
-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>2898</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>03:29</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): <u>03:55</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: carbon hole

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number: <u>2899</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>03:57</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): <u>04:20</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
Comments: carbon hole

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ 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.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  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:	<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  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

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

Date: 23/11/14  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*elastic*

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8.483 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>1.33</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
p: 0-4.120  $\theta$ (TV): 27.615  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 38.00  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 21.70  
-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>2900</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>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>05:35</u> Stop time (from RC): <u>06:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK? <i>done</i>	hTRIG1 rate: <u>41</u> hTRIG5 rate: <u>40</u>	hTRIG3 rate: <u>177</u> hTRIG6 rate: <u>40</u>	hTRIG4 rate: <u>49</u> Data ok <input type="checkbox"/> Junk <input type="checkbox"/>
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coin\_sparse  coin  coin\_sparse\_low   
Comments: *Very few counts in 50K unsure if data are ok?*  
Events: ~160K  
Charge: 118.41  $\mu$ C  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal) ( $\mu$ A): 2.4

Run Number: <u>2901</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>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>06:43</u> Stop time (from RC): <u>07:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <i>done</i> <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>40</u> hTRIG5 rate: <u>40</u>	hTRIG3 rate: <u>145</u> hTRIG6 rate: <u>40</u>	hTRIG4 rate: <u>49</u> Data ok <input type="checkbox"/> Junk <input type="checkbox"/>
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coin\_sparse  coin  coin\_sparse\_low   
Comments: *continue with some data ok?*  
Events: 149410  
Charge: 118.41  $\mu$ C  
Active trigger LiveTime fraction (NPS Scaler Gui): \_\_\_\_\_  
Max NPS anode current (single crystal) ( $\mu$ A): \_\_\_\_\_

Run Number: <u>2902</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>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>07:46</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>5.5</u> hTRIG5 rate: <u>4.9</u>	hTRIG3 rate: <u>4.9</u> hTRIG6 rate: <u>4.9</u>	hTRIG4 rate: <u>13.1</u> Data ok <input type="checkbox"/> Junk <input type="checkbox"/>
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coin\_sparse  coin  coin\_sparse\_low   
Comments: *EOTM reduced to 5 Hz killed before ended.*  
Events: \_\_\_\_\_  
Charge: \_\_\_\_\_  
Active trigger LiveTime fraction (NPS Scaler Gui): \_\_\_\_\_  
Max NPS anode current (single crystal) ( $\mu$ A): \_\_\_\_\_

Run Number: <u>2903</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>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>08:04:22</u> Stop time (from RC): <u>09:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <i>done, not ok</i>	hTRIG1 rate: <u>5.55</u> hTRIG5 rate: <u>5.0</u>	hTRIG3 rate: <u>134.5</u> hTRIG6 rate: <u>4.7</u>	hTRIG4 rate: <u>13.2</u> Data ok <input type="checkbox"/> Junk <input type="checkbox"/>
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coin\_sparse  coin  coin\_sparse\_low   
Comments: *Test of settings*  
Events: 5.6k  
Charge: \_\_\_\_\_  
Active trigger LiveTime fraction (NPS Scaler Gui): \_\_\_\_\_  
Max NPS anode current (single crystal) ( $\mu$ A): 113.81

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

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

Date: 23/11/14  
yy mm dd

Initials: Hao

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*elastic with 4pass*

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 8.457 GeV

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

Beam position and angle on target:

**HMS**  
 p: 4-12  $\theta$ (TV): 27.615  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 38  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 21.7  
 -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 = 0 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 2904  
 I<sub>beam</sub>: 40  $\mu$ A  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.i.  
 PS1: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1  
 Start time (from RC): 09:42 Stop time (from RC): 10:04  
 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: *Test of gain factor. ~~the elastic peak is back~~*  
 Events 145k Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 2905  
 I<sub>beam</sub>: 40  $\mu$ A  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.i.  
 PS1: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1  
 Start time (from RC): 10:06:19 Stop time (from RC): 11:16:11  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate 111k hTRIG3 rate 134.7 hTRIG4 rate 12  
 hTRIG5 rate 14 hTRIG6 rate 6.2  Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: *Test of gain factor the elastic peak is back*  
 Events 459k Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 2906  
 I<sub>beam</sub>: 40  $\mu$ A  
 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): 11:23:28 Stop time (from RC): 12:23:33  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate 111k hTRIG3 rate 134.7 hTRIG4 rate 12.0  
 hTRIG5 rate 13.5 hTRIG6 rate 7.4  Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: *Elastic with SHMS @ 38°*  
 Events 454k Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 2907  
 I<sub>beam</sub>: 40  $\mu$ A  
 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): 12:34:27 Stop time (from RC): 13:35:21  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate 184k hTRIG3 rate 144.1 hTRIG4 rate 13.1  
 hTRIG5 rate 16.5 hTRIG6 rate 6.9  Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: *Elastic with SHMS @ 36.4°*  
 Events 60k 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:Runsheets\_dvcs\_NPS.pdf

Date: 23/11/14  
yy mm dd

Initials: HH

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
*4 pass ep runs.*

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 8.451 GeV

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

Beam position and angle on target:

**HMS**  
 $\theta$  = 4.12  $\theta$ (TV): 27.615  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.14  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 19.84  
 $-16.30^\circ$  21.7  
Nearest 0.005

3H07A	X	Y
<u>1.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.1</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**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>2908</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>13:37:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>184k</u>	hTRIG3 rate <u>133.2</u>	hTRIG4 rate <u>11.6</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>13:43:49</u>		hTRIG5 rate <u>16.2</u>	hTRIG6 rate <u>7.7</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: *elastic with SHMS @ 36.14° stopped to ramp down the HMS dipole*  
 Events 6k Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 2.32 ( $\mu$ A)  
 Charge C

Run Number: <u>2909</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>15:14:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>193k</u>	hTRIG3 rate <u>132.8</u>	hTRIG4 rate <u>12.3</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>16:31:42</u>		hTRIG5 rate <u>17.4</u>	hTRIG6 rate <u>6.2</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: \_\_\_\_\_  
 Events 6725 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 2.5 ( $\mu$ A)  
 Charge 33.88 mC

Run Number: <u>2910</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>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>-</u> PS5: <u>0</u> PS6: <u>-</u>	Start time (from RC): <u>16:33:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.83e5</u>	hTRIG3 rate <u>125.7</u>	hTRIG4 rate <u>12.1</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>17:47:00</u>		hTRIG5 rate <u>16.0</u>	hTRIG6 rate <u>5.7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low   
 Comments: \_\_\_\_\_  
 Events 6737 Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 2.81 ( $\mu$ A)  
 Charge 142.36 mC

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> : _____ $\mu$ A			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 \_\_\_\_\_ Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) \_\_\_\_\_ ( $\mu$ A)  
 Charge \_\_\_\_\_ C

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

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

Date: 23/11/14  
yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC x**  
4 pass Ep runs

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

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

E<sub>beam</sub>: 8.45 GeV

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: (+) 4.12  $\theta$ (TV): 27.615  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 28  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 21.7  
 -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 = 0 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>2911</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>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>-</u> PS5: <u>0</u> PS6: <u>-</u>	Start time (from RC): <u>18:01:37</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.2e5</u>	hTRIG3 rate <u>135</u>	hTRIG4 rate <u>12.1</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:		Stop time (from RC): <u>19:15:24</u>	hTRIG5 rate <u>15.8</u>	hTRIG6 rate <u>5.4</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"/>	Events <u>69198</u> Charge <u>142.46</u> C		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.8</u> ( $\mu$ A)			

Run Number: <u>2912</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>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>-</u> PS5: <u>0</u> PS6: <u>-</u>	Start time (from RC): <u>19:16:30</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.21e5</u>	hTRIG3 rate <u>135.1</u>	hTRIG4 rate <u>13.0</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:		Stop time (from RC): <u>20:21:52</u>	hTRIG5 rate <u>17.8</u>	hTRIG6 rate <u>7.4</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"/>	Events <u>64291</u> Charge <u>136.09</u> C		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.76</u> ( $\mu$ A)			

Run Number: <u>2913</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>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>-</u> PS5: <u>0</u> PS6: <u>-</u>	Start time (from RC): <u>20:23:05</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.23e5</u>	hTRIG3 rate <u>129</u>	hTRIG4 rate <u>15.6</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:		Stop time (from RC): <u>21:29:48</u>	hTRIG5 rate <u>16.5</u>	hTRIG6 rate <u>7.4</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"/>	Events <u>65519</u> Charge <u>138.49</u> C		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.98</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.i	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A	Comments:		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"/>	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

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

Date: 23/11/14  
yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
4 pass Ep runs

**Purpose:**

- Production
- Test
- Optics
- Other: Elastic

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 8.457 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:		
3H07C	X	Y
<u>0.7</u>	mm	<u>0.9</u> mm
NomIn:		

**HMS**  
 R: + 4.12 θ(TV): 27.615  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 36.14  
Nearest 0.005

**NPS**  
 θ = SHMS 19.84  
 -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>2914</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>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>-</u> PS5: <u>0</u> PS6: <u>-</u>	Start time (from RC): <u>21:39:06</u> Stop time (from RC): <u>22:42:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.83e5</u>	hTRIG3 rate <u>136.6</u>	hTRIG4 rate <u>13.8</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:			Events <u>3534</u> Charge <u>137.73</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.02</u> (μA)	

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>2915</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>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>-</u> PS5: <u>0</u> PS6: <u>-</u>	Start time (from RC): <u>22:43:43</u> Stop time (from RC): <u>23:49:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.83e5</u>	hTRIG3 rate <u>125.6</u>	hTRIG4 rate <u>13.1</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:			Events <u>6493</u> Charge <u>138.2</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>0.96</u> (μA)	

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>2916</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>-</u> PS2: <u>-</u> PS3: <u>-</u> PS4: <u>-</u> PS5: <u>0</u> PS6: <u>-</u>	Start time (from RC): <u>23:50:48</u> Stop time (from RC): <u>00:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.86e5</u>	hTRIG3 rate <u>140.4</u>	hTRIG4 rate <u>15.4</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.13</u> (μA)	

coin\_sparse   
 coin   
 coin\_sparse\_low

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):  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
I <sub>beam</sub> : _____ μA	Comments:			Events _____ Charge _____ C	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

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: 23 / 11 / 15  
yy mm dd

Initials: KAA

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>: 8.483 GeV

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: 4.120  $\theta$ (TV): 27.615  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 38.00  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 21.70  
-16.30° Nearest 0.005

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

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

Run Number: 2917  
 I<sub>beam</sub>: 40  $\mu$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 01:08  
 Stop time (from RC): 02:15  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 1.2e5 hTRIG3 rate: 133 hTRIG4 rate: 14  
 hTRIG5 rate: 18 hTRIG6 rate: 7  
 Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
63990 Events  
132.71 Charge mC  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
 Max NPS anode current (single crystal): 0.8 ( $\mu$ A)

Run Number: 2918  
 I<sub>beam</sub>: 40  $\mu$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 02:16  
 Stop time (from RC): 03:24  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 1.2e5 hTRIG3 rate: 133 hTRIG4 rate: 11  
 hTRIG5 rate: 19 hTRIG6 rate: 7  
 Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
63934 Events  
132.9 Charge mC  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
 Max NPS anode current (single crystal): 0.8 ( $\mu$ A)

Run Number: 2919  
 I<sub>beam</sub>: 40  $\mu$ 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): 03:26  
 Stop time (from RC): 04:32  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 1.2x10<sup>5</sup> hTRIG3 rate: 138 hTRIG4 rate: 14  
 hTRIG5 rate: 16 hTRIG6 rate: 6  
 Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
63990 Events  
136.42 Charge mC  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
 Max NPS anode current (single crystal): 0.8 ( $\mu$ A)

Run Number: \_\_\_\_\_  
 I<sub>beam</sub>: \_\_\_\_\_  $\mu$ 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: \_\_\_\_\_  
 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: 23 / 11 / 15  
 yy mm dd

Initials: KAA

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: +/- 4.120  $\theta$ (TV): 17.615  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.14  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 19.84  
 -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>0.8</u> mm	
Nomin:		Nomin:

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

Run Number: 2920  
 I<sub>beam</sub>: 40  $\mu$ A  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
 Start time (from RC): 04:45 Stop time (from RC): 05:54  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 1.85x10<sup>5</sup> hTRIG3 rate: 143 hTRIG4 rate: 13  
 hTRIG5 rate: 17 hTRIG6 rate: 6  
 Data ok  Junk

Comments: ended for maintenance day  
 Events: 63310 Charge: 131.17 C  
 Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
 Max NPS anode current (single crystal): 0.9 ( $\mu$ A)

Run Number: \_\_\_\_\_  
 I<sub>beam</sub>: \_\_\_\_\_  $\mu$ 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

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

Run Number: \_\_\_\_\_  
 I<sub>beam</sub>: \_\_\_\_\_  $\mu$ 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

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

Run Number: \_\_\_\_\_  
 I<sub>beam</sub>: \_\_\_\_\_  $\mu$ 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

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

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

Date: 23 / 11 / 17  
yy mm dd

Initials: JR

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : \_\_\_\_\_ GeV

Raster:  On  Off  
Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

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

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

<b>Run Number:</b> 2968	<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	hTRIG5 rate hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	--	---	----------------------------	--

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED Run col 12 → 14  
FAD W-OFFSET = 5550

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

<b>Run Number:</b> 2969	<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	hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
----------------------------	---	--	---	--	---	----------------------------	--

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED Run col 12 → 14  
FADC W-OFFSET = 10550  
WIDTH 1000

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

<b>Run Number:</b> 2970	<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	hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
----------------------------	---	--	---	--	---	----------------------------	--

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED Run col 12 → 14  
FADC W-OFFSET (10550), WIDTH 2000

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

<b>Run Number:</b> 2971	<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	hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	--	---	----------------------------	---

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LED Run  
FAD-W-OFFSET = 7550, WIDTH 2000

Events \_\_\_\_\_ 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:Runsheets\_dvcs\_NPS.pdf

Date:     /     /     Initials:    

Use a separate sheet for each configuration.

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

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

HMS, field, current OK?  
yes  no

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

Raster:  On  Off  
Size: \_\_\_\_\_

Beam position and angle on target:

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

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

**NPS**  
 $\theta = \text{SHMS}$   
 $-16.30^\circ$  Nearest 0.005

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

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

<b>Run Number:</b> 2972	<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	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: TEST JUNR	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )
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<b>Run Number:</b> 2973	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 16:44 Stop time (from RC): 17:42	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2 MHz hTRIG3 rate: 6.1 kHz hTRIG4 rate: 3.8 kHz	hTRIG5 rate: 3.2 kHz hTRIG6 rate: 2.1 kHz	<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: HMS Hodo 1x + channel 11 looks bad in both ADC and TDC occupancy plots.	Events 2028 Charge $\mu\text{C}$	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal) ( $\mu\text{A}$ ): 15.47
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<b>Run Number:</b> 2974	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 17:43 Stop time (from RC): 17:53	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2 MHz hTRIG3 rate: 6.1 kHz hTRIG4 rate: 3.8 kHz	hTRIG5 rate: 3.2 kHz hTRIG6 rate: 2.1 kHz	<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:	Events 10778 Charge 4.18 $\mu\text{C}$	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal) ( $\mu\text{A}$ ): 15.47
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<b>Run Number:</b> 2975	<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: _____ PS5: _____ PS6: _____	Start time (from RC): 17:59 Stop time (from RC): 19:02	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2 MHz hTRIG3 rate: 5.5 kHz hTRIG4 rate: 3.6 kHz	hTRIG5 rate: 2.8 kHz hTRIG6 rate: 1.8 kHz	<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:	Events 5087 Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.7%	Max NPS anode current (single crystal) ( $\mu\text{A}$ ): 10.14
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# $p(e, e'\gamma) p$ Run Sheet

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

Date: 23 / 11 / 17  
yy / mm / dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : 8.457 GeV

Raster:  On  Off  
Size: 272

Beam position and angle on target:

**HMS**  
 $\theta$ : +4.0420 (TV): 17.01  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 28.76  
Nearest 0.005

**NPS**  
 $\theta$  = **SHMS**  
-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  $I = \underline{468}$  Amp  
NPS Upstream Corr.  $I = \underline{OFF}$  Amp  
NPS Upstream Corr.  $I = \underline{OFF}$  Amp

Run Number: <u>2976</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>0</u>	Start time (from RC): <u>19:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2 MHz</u>	hTRIG3 rate <u>5.4 kHz</u>	hTRIG4 rate <u>3.7 kHz</u>
$I_{beam}$ : <u>20</u> $\mu A$	Stop time (from RC): <u>20:09</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2.6 kHz</u>	hTRIG6 rate <u>1.8 kHz</u>	

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 6054K Charge 61.77 mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 10.14 ( $\mu A$ )

Run Number: <u>2977</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>0</u>	Start time (from RC): <u>20:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6 MHz</u>	hTRIG3 rate <u>4.2 kHz</u>	hTRIG4 rate <u>2.8 kHz</u>
$I_{beam}$ : <u>15</u> $\mu A$	Stop time (from RC): <u>20:33</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1.2 kHz</u>	hTRIG6 rate <u>8.2 kHz</u>	

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 1272K Charge 17.23 mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2.94 ( $\mu A$ )

Run Number: <u>2978</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>0</u>	Start time (from RC): <u>20:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2 MHz</u>	hTRIG3 rate <u>2.7 kHz</u>	hTRIG4 rate <u>1.9 kHz</u>
$I_{beam}$ : <u>10</u> $\mu A$	Stop time (from RC): <u>20:59</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>7.5 kHz</u>	hTRIG6 rate <u>5.7 kHz</u>	

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 677K Charge 6 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2.26 ( $\mu A$ )

Run Number: <u>2979</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>2</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u>	Start time (from RC): <u>21:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2 MHz</u>	hTRIG3 rate <u>5.5 kHz</u>	hTRIG4 rate <u>3.6 kHz</u>
$I_{beam}$ : <u>20</u> $\mu A$	Stop time (from RC): <u>21:24</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2.6 kHz</u>	hTRIG6 rate <u>1.8 kHz</u>	

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 234K Charge 2.34 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 3.77 ( $\mu A$ )

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

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

Date: 23/11/17  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36\_2**

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : 8.457 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**  
 $p$ : +0.4, 0.420 (TV): 28.76  
From GUI Nearest 0.005

**SHMS**  
 $\theta$  (TV): 28.76  
Nearest 0.005

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

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

Run Number: <u>2980</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>0</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>21:26</u> Stop time (from RC): <u>22:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.6 MHz</u> hTRIG5 rate: <u>1.6 kHz</u>	hTRIG3 rate: <u>4 kHz</u> hTRIG6 rate: <u>1 kHz</u>	hTRIG4 rate: <u>2.8 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events: 2231K  
Charge: 28.96 mC  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal): 2.94 ( $\mu$ A)

Run Number: <u>2981</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>22:11</u> Stop time (from RC): <u>22:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2 MHz</u> hTRIG5 rate: <u>1.3 kHz</u>	hTRIG3 rate: <u>2.8 kHz</u> hTRIG6 rate: <u>865 Hz</u>	hTRIG4 rate: <u>1.9 kHz</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events: 1944K  
Charge: 12.32 mC  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal): 1.61 ( $\mu$ A)

Run Number: <u>2982</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>3</u>	Start time (from RC): <u>22:43</u> Stop time (from RC): <u>22:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9 MHz</u> hTRIG5 rate: <u>2.3 kHz</u>	hTRIG3 rate: <u>5.5 kHz</u> hTRIG6 rate: <u>1.6 kHz</u>	hTRIG4 rate: <u>3.7 kHz</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	--	---	---	--	--	--

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events: 242K  
Charge: 14.11 mC  
Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
Max NPS anode current (single crystal): 3.77 ( $\mu$ A)

Run Number: <u>2983</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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>0</u>	Start time (from RC): <u>23:38</u> Stop time (from RC): <u>00:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.2 MHz</u> hTRIG5 rate: <u>3.6 kHz</u>	hTRIG3 rate: <u>6.9 kHz</u> hTRIG6 rate: <u>2.2 kHz</u>	hTRIG4 rate: <u>4.2 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: Started with 36  $\mu$ A, then went down to 24  $\mu$ A (~500k events in) to keep COMDA data & event rates reasonable.  
Events: 28.84  
Charge: mC  
Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%  
Max NPS anode current (single crystal): 6.78 ( $\mu$ A)

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

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

Date: 23/11/17  
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

**Kinematics:** KinC x 3G-2

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 8.456 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

SHMS

NPS

$p$ : +A 4.0420  $\theta$ (TV): 17.01  
From GUI Nearest 0.005

$\theta$ (TV): 28.76  
Nearest 0.005

$\theta$  = SHMS  
-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:

2984

- 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: 0

Start time (from RC):

00:09

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$1 \times 10^6$

hTRIG3 rate

3557

hTRIG4 rate

2200

$I_{beam}$ : 12  $\mu$ A

Stop time (from RC):

00:25

hTRIG5 rate

1000

hTRIG6 rate

630

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: "hTRIG1" = NPS\_T1 correct helicity display is incorrect now

Events 583K  
Charge 9.86 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

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

Run Number:

2985

- 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: 0

Start time (from RC):

00:47

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$2 \times 10^6$

hTRIG3 rate

6200

hTRIG4 rate

3900

$I_{beam}$ : 8  $\mu$ A

Stop time (from RC):

01:04

hTRIG5 rate

3117

hTRIG6 rate

1894

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: did not zero # events ended run, EPICS events?

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

Active trigger LiveTime fraction (NPS Scaler Gui) 99.7%

Max NPS anode current (single crystal) 2.70 ( $\mu$ A)

Run Number:

2986

- 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: 0

Start time (from RC):

01:02

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$2 \times 10^6$

hTRIG3 rate

6200

hTRIG4 rate

3800

$I_{beam}$ : 8  $\mu$ A

Stop time (from RC):

02:04

hTRIG5 rate

3000

hTRIG6 rate

1840

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 6.76M evts, chg = 24.74 mC

Events 9.96M  
Charge 24.74 mC

Active trigger LiveTime fraction (NPS Scaler Gui) 96%

Max NPS anode current (single crystal) 2.82 ( $\mu$ A)

Run Number:

2987

- 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: 0

Start time (from RC):

02:07

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$2.1 \times 10^6$

hTRIG3 rate

6100

hTRIG4 rate

3749

$I_{beam}$ : 8  $\mu$ A

Stop time (from RC):

03:07

hTRIG5 rate

3000

hTRIG6 rate

1900

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 6.51M  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.5%

Max NPS anode current (single crystal) 2.65 ( $\mu$ A)

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

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

Date: 23 / 11 / 18  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 30-2**

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 8.457 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS  
p: +24.042  $\theta$ (TV): 17.01  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 28.76  
Nearest 0.005

NPS  
 $\theta$  = SHMS 12.46°  
-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 = off Amp NPS Upstream Corr. I = off Amp

Run Number: 2988  
I<sub>beam</sub>: 26  $\mu$ 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: 0

Start time (from RC): 03:12  
Stop time (from RC): 03:33

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

hTRIG1 rate 1.8x10<sup>6</sup>  
hTRIG5 rate 2420

hTRIG3 rate 5433  
hTRIG6 rate 1521

hTRIG4 rate 3351  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: F80 Trip asked for 6 GUI reads 7.0  $\mu$ A EOR = 6.03  $\mu$ A

Events 1.55M  
Charge 5.09 C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%

Max NPS anode current (single crystal) 2.04 ( $\mu$ A)

Run Number: 2989  
I<sub>beam</sub>: 4  $\mu$ 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: 0

Start time (from RC): 03:58  
Stop time (from RC): 04:18

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

hTRIG1 rate 1M  
hTRIG5 rate 888

hTRIG3 rate 3057  
hTRIG6 rate 553

hTRIG4 rate 1892  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 7.27K  
Charge 4.30  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.93

Max NPS anode current (single crystal) 1.38 ( $\mu$ A)

Run Number: 2990  
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: 2  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC): 04:23  
Stop time (from RC): 04:44

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

hTRIG1 rate 2x10<sup>6</sup>  
hTRIG5 rate 2981

hTRIG3 rate 6259  
hTRIG6 rate 1913

hTRIG4 rate 3179  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 2.24M  
Charge 6.72  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 2.71 ( $\mu$ A)

Run Number: 2991  
I<sub>beam</sub>: 6  $\mu$ 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): 04:48  
Stop time (from RC): 05:28

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

hTRIG1 rate 1.56e6  
hTRIG5 rate 1838

hTRIG3 rate 4694  
hTRIG6 rate 1140

hTRIG4 rate 2890  
 Data ok  
 Junk

coin\_sparse   
in   
in\_sparse\_low

Comments:

Events 6.56M  
Charge 11.08  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 2.13 ( $\mu$ A)

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

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

Date: 23, 11, 18  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 30\_2

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 8457 GeV

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: + 4.0420  $\theta$ (TV): 17.01  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 28.76  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 12.46°  
-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:** 2992  
 I<sub>beam</sub>: 4  $\mu$ 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: 0

Start time (from RC): 05:33  
 Stop time (from RC): 05:53

Settings Verified?  
 HV OK?  
 50k OK?

*NPS-T1*  
 hTRIG1 rate: 1.86e6  
 hTRIG3 rate: 3172  
 hTRIG4 rate: 1965  
 hTRIG5 rate: 1358  
 hTRIG6 rate: 814

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 3.85  
 Charge 11 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%

Max NPS anode current (single crystal): 1.74 ( $\mu$ A)

**Run Number:** 2993  
 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: 0

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: PS6 too small

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

Active trigger LiveTime fraction (NPS Scaler Gui): \_\_\_\_\_

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

**Run Number:** 2994  
 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: 4

Start time (from RC): 6:03  
 Stop time (from RC): \_\_\_\_\_

Settings Verified?  
 HV OK?  
 50k OK?

*NPS-T1*  
 hTRIG1 rate: 2x10<sup>6</sup>  
 hTRIG3 rate: 6205  
 hTRIG4 rate: 3812  
 hTRIG5 rate: 2863  
 hTRIG6 rate: 1777

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: data rate = 50,000 KB/sec

Events 3.43  
 Charge 11 C

Active trigger LiveTime fraction (NPS Scaler Gui): 100%

Max NPS anode current (single crystal): 2.73 ( $\mu$ A)

**Run Number:** 2995  
 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: 3

Start time (from RC): 06:14  
 Stop time (from RC): 06:06:54

Settings Verified?  
 HV OK?  
 50k OK?

*NPS-T1*  
 hTRIG1 rate: 2x10<sup>6</sup>  
 hTRIG3 rate: 6208  
 hTRIG4 rate: 3840  
 hTRIG5 rate: 2887  
 hTRIG6 rate: 1801

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: data rate = 95,000 KB/s

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

Active trigger LiveTime fraction (NPS Scaler Gui): 100%

Max NPS anode current (single crystal): 2.83 ( $\mu$ A)

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

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

Date: 23, 11, 18  
yy mm dd

Initials: \_\_\_\_\_

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 3C-2

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8457 GeV

Raster:  On  Off

Size: 2 x 2 mm

Beam position and angle on target:

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

**HMS**

**SHMS**

**NPS**

p: +4.0420  $\theta$ (TV): 17.01  
From GUI Nearest 0.005

$\theta$ (TV): 28.76  
Nearest 0.005

$\theta$  = SHMS 17.46  
-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:

2996

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

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

Start time (from RC):

06:46

Stop time (from RC):

07:48

Settings Verified?

HV OK?

50k OK?

<sup>NPS-T1</sup>  
hTRIG1 rate

1.85e6

hTRIG3 rate

5463

hTRIG4 rate

3593

hTRIG5 rate

2471

hTRIG6 rate

1660

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Production cycle #1  
run#1 of 2 runs in LH2

<sup>~6x10<sup>9</sup></sup>  
Events 45071  
Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.75

Max NPS anode current (single crystal) 4.06 ( $\mu$ A)

Run Number:

2997

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

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

Start time (from RC):

07:49

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

<sup>NPS-T1</sup>  
hTRIG1 rate

1.85e6

hTRIG3 rate

5458

hTRIG4 rate

3716

hTRIG5 rate

2501

hTRIG6 rate

1737

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Prod. cycle #1  
run#2 of 2 runs in LH2

Events 5.57M  
Charge 186C

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 3.67 ( $\mu$ A)

Run Number:

2998

- 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)

Run Number:

2999

- 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   
in   
in\_sparse\_low

Comments: LED  
FACSD-W-OFFSET

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

= 7548

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

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

Date: 23/11/18  
 yy mm dd

Initials: JR

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 36.2

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

HMS, field, current OK?  
 yes  no

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

Raster:  On  Off  
 Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

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

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

<b>Run Number:</b> <u>3000</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: _____ 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
$I_{\text{beam}}$ : _____ $\mu\text{A}$	Comments: <u>LED</u> <u>FANCSO - W - OFFSET - 7000</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	

<b>Run Number:</b> <u>3001</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: _____ 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
$I_{\text{beam}}$ : _____ $\mu\text{A}$	Comments: <u>LED</u> <u>FADC - W - OFFSET - 7250</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	

<b>Run Number:</b>	<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): _____ 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
$I_{\text{beam}}$ : _____ $\mu\text{A}$	Comments:			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>						<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	

<b>Run Number:</b>	<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): _____ 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
$I_{\text{beam}}$ : _____ $\mu\text{A}$	Comments:			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )	
coin_sparse <input 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

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-2'**

$E_{beam}$ : 8.457 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**

**SHMS**

**NPS**

$p$ : +04.042  $\theta(TV)$ : 28.770  
From GUI Nearest 0.005

$\theta(TV)$ : 28.770  
Nearest 0.005

$\theta$  = SHMS 12.4107  
-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:**

3002

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

15:32

Stop time (from RC):

16:25

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.16x10<sup>6</sup>

hTRIG3 rate

6K

hTRIG4 rate

4K

hTRIG5 rate

3K

hTRIG6 rate

2K

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Not Ending properly

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

Active trigger LiveTime fraction (NPS Scaler Gui) 99%

Max NPS anode current (single crystal) 2.6 ( $\mu A$ )

**Run Number:**

3003

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

16:30

Stop time (from RC):

17:36

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.16x10<sup>6</sup>

hTRIG3 rate

6K

hTRIG4 rate

4K

hTRIG5 rate

3K

hTRIG6 rate

2K

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 69330  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui) 99

Max NPS anode current (single crystal) 2.6 ( $\mu A$ )

**Run Number:**

3004

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

17:38

Stop time (from RC):

18:40

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.17x10<sup>6</sup>

hTRIG3 rate

6K

hTRIG4 rate

3.8K

hTRIG5 rate

3K

hTRIG6 rate

1.9K

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 6.86M  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui) 99

Max NPS anode current (single crystal) 2.78 ( $\mu A$ )

**Run Number:**

3005

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

18:42

Stop time (from RC):

19:36

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.16x10<sup>6</sup>

hTRIG3 rate

6.3K

hTRIG4 rate

3.9K

hTRIG5 rate

3K

hTRIG6 rate

2K

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Not ending properly

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

Active trigger LiveTime fraction (NPS Scaler Gui) 99

Max NPS anode current (single crystal) 2.68 ( $\mu A$ )

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

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

Date:    /   /     
yy mm dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics:**  $KinC_x$  36-21

**Purpose:**  
 Production  
 Test  
 Optics  
 Other:    

HMS, field, current OK?  
 yes  no

$E_{beam}$ : 8.457 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS** 17.01  
 $\theta$ : +0.4042 (TV): 17.015  
From GUI Nearest 0.005

**SHMS** 28.76  
 $\theta$ (TV): 28.77  
Nearest 0.005

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

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

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet  $I =$  408 Amp  
 NPS Upstream Corr.  $I =$  0 Amp

Run Number: 3006  
 $I_{beam}$ : 6  $\mu A$

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

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

Start time (from RC): 19:43  
 Stop time (from RC): 20:05

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.79x10<sup>6</sup>  
 hTRIG5 rate: 1857

hTRIG3 rate: 4643  
 hTRIG6 rate: 1155

hTRIG4 rate: 2907  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:    

Events 1143M  
 Charge 698

Active trigger LiveTime fraction (NPS Scaler Gui): 99%

Max NPS anode current (single crystal): 1.9 ( $\mu A$ )

Run Number: 3007  
 $I_{beam}$ : 4  $\mu A$

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

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

Start time (from RC): 20:08  
 Stop time (from RC): 20:29

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.28x10<sup>6</sup>  
 hTRIG5 rate: 958

hTRIG3 rate: 3099  
 hTRIG6 rate: 616

hTRIG4 rate: 1959  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:    

Events 705K  
 Charge 457C

Active trigger LiveTime fraction (NPS Scaler Gui): 99%

Max NPS anode current (single crystal): 1.0 ( $\mu A$ )

Run Number: 3008  
 $I_{beam}$ : 8  $\mu A$

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

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

Start time (from RC): 20:33  
 Stop time (from RC): 20:53

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.18x10<sup>6</sup>  
 hTRIG5 rate: 3148

hTRIG3 rate: 6260  
 hTRIG6 rate: 1986

hTRIG4 rate: 2935  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:    

Events      
 Charge 837C

Active trigger LiveTime fraction (NPS Scaler Gui): (PS3)

Max NPS anode current (single crystal): 2.7 ( $\mu A$ )

Run Number: 3009  
 $I_{beam}$ : 6  $\mu A$

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): 20:56  
 Stop time (from RC):    

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.8x10<sup>6</sup>  
 hTRIG5 rate: 1930

hTRIG3 rate: 4742  
 hTRIG6 rate: 1180

hTRIG4 rate: 2910  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: NOT ENDING PROBLEM

Events      
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui): (PS4)

Max NPS anode current (single crystal): 2.21 ( $\mu A$ )

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

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

Date:     /     /      
yy mm dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 36-21

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: \_\_\_\_\_ 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>3010</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>21:09</u> Stop time (from RC): <u>21:49</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>1900</u>	hTRIG3 rate: <u>4742</u> hTRIG6 rate: <u>1191</u>	hTRIG4 rate: <u>2911</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>654819</u> Charge <u>1268</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.87690</u>	Max NPS anode current (single crystal) <u>1.74</u> ( $\mu$ A)
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Run Number: <u>3011</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>0</u>	Start time (from RC): <u>21:52</u> Stop 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>1.91x10<sup>6</sup></u> hTRIG5 rate: <u>1361</u>	hTRIG3 rate: <u>3157</u> hTRIG6 rate: <u>839</u>	hTRIG4 rate: <u>1907</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 checked="" type="checkbox"/>	Comments: _____	Events <u>9844</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.87690</u>	Max NPS anode current (single crystal) <u>1.57</u> ( $\mu$ A)
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Run Number: <u>3012</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>0</u>	Start time (from RC): <u>22:18</u> Stop time (from RC): <u>22:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.05x10<sup>6</sup></u> hTRIG5 rate: <u>2938</u>	hTRIG3 rate: <u>6273</u> hTRIG6 rate: <u>1814</u>	hTRIG4 rate: <u>3856</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Data Rate <math>\approx</math> 500MB/s</u> <u>LIVE TIME &lt; 100%</u>	Events <u>1051</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.87690</u>	Max NPS anode current (single crystal) <u>2.75</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: _____ 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: _____	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

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

Date: 23/11/18  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 30-2

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

HMS, field, current OK?  
 yes  no

$E_{beam}$ : 8458 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 $p$ : +/- 4.002  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

**SHMS** 30.66  
 $\theta$ (TV): 30.67  
Nearest 0.005

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

3H07A	X	Y
<u>1.709</u> mm		<u>0.299</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  $I = \underline{468}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp

Run Number: 3013  
 $I_{beam}$ : 30  $\mu A$

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

PS1: \_\_\_\_\_  
 PS2: \_\_\_\_\_  
 PS3: \_\_\_\_\_  
 PS4: \_\_\_\_\_  
 PS5: \_\_\_\_\_  
 PS6: 0

Start time (from RC): 23:31  
 Stop time (from RC): 00:40

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 204X10°  
 hTRIG5 rate: 3777

hTRIG3 rate: 8302  
 hTRIG6 rate: 2509

hTRIG4 rate: 5544  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 0.5M  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.131%

Max NPS anode current (single crystal) 3.45 ( $\mu A$ )

Run Number: 3014  
 $I_{beam}$ : 30  $\mu A$

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: 0

Start time (from RC): 00:43  
 Stop time (from RC): 01:43

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 17406  
 hTRIG5 rate: 3690

hTRIG3 rate: 8176  
 hTRIG6 rate: 2599

hTRIG4 rate: 5650  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

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

Active trigger LiveTime fraction (NPS Scaler Gui) 99.1

Max NPS anode current (single crystal) 4.12 ( $\mu A$ )

Run Number: 3015  
 $I_{beam}$ : 20  $\mu A$

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: 0

Start time (from RC): 01:46  
 Stop time (from RC): 02:06

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 11506  
 hTRIG5 rate: 1848

hTRIG3 rate: 5625  
 hTRIG6 rate: 1234

hTRIG4 rate: 3721  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 1.33M  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.4%

Max NPS anode current (single crystal) 2.57 ( $\mu A$ )

Run Number: 3016  
 $I_{beam}$ : 10  $\mu A$

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: 0

Start time (from RC): 02:09  
 Stop time (from RC): 02:29

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 5505  
 hTRIG5 rate: 509

hTRIG3 rate: 2895  
 hTRIG6 rate: 578

hTRIG4 rate: 1917  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 412K  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 1.69 ( $\mu A$ )

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

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

Date: 23/11/19  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x36-2

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{\text{beam}}$ : 8457 GeV

Raster:  On  Off  
Size: 2x2mm

Beam position and angle on target:

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

**HMS**  
 $p$ : +04.1042  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.67°  
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

<b>Run Number:</b> <u>3017</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>3</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:33</u> Stop time (from RC): <u>02:53</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>	hTRIG3 rate <u>8377</u>	hTRIG4 rate <u>5672</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>30</u> $\mu\text{A}$	Comments: <u>30 <math>\mu\text{A}</math>, PS3=3</u>			Events <u>193M</u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>NA</u>	Max NPS anode current (single crystal) <u>1.74</u> ( $\mu\text{A}$ )		

<b>Run Number:</b> <u>3018</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>02:56</u> Stop time (from RC): <u>02:58</u>	<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 type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>20</u> $\mu\text{A}$	Comments: <u>ended run event rate <math>\approx</math> 4k</u>			Events <u>    </u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>    </u> ( $\mu\text{A}$ )		

<b>Run Number:</b> <u>3019</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>03:00</u> Stop time (from RC): <u>03:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.15e6</u>	hTRIG3 rate <u>5554</u>	hTRIG4 rate <u>3807</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>20</u> $\mu\text{A}$	Comments:			Events <u>4.33M</u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>NA</u>	Max NPS anode current (single crystal) <u>2.51</u> ( $\mu\text{A}$ )		

<b>Run Number:</b> <u>3020</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>0</u>	Start time (from RC): <u>03:45</u> Stop time (from RC): <u>04:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.5e5</u>	hTRIG3 rate <u>2830</u>	hTRIG4 rate <u>1963</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>10</u> $\mu\text{A}$	Comments:			Events <u>    </u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>1.58</u> ( $\mu\text{A}$ )		

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

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

Date: <sup>23</sup> ~~11~~, 11, 19  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x~~26~~-2**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8457 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>0.7</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: +0.4042  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.67  
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>3021</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>0</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 type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: data rate too high at 30  $\mu$ A coin mode  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: <u>3022</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 hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: still too high a rate  
Events \_\_\_\_\_ Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: <u>3023</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>0</u>	Start time (from RC): <u>04:15</u> Stop time (from RC): <u>04:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>6.8e5</u> hTRIG3 rate: <u>3342</u> hTRIG4 rate: <u>2335</u> hTRIG5 rate: <u>647</u> hTRIG6 rate: <u>474</u>	<input 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) 99.97%  
Max NPS anode current (single crystal) 1.58 ( $\mu$ A)

Run Number: <u>3025</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>0</u>	Start time (from RC): <u>04:44</u> Stop time (from RC): <u>04:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.1e6</u> hTRIG3 rate: <u>6087</u> hTRIG4 rate: <u>3630</u> hTRIG5 rate: <u>1902</u> hTRIG6 rate: <u>1200</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 808K Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%  
Max NPS anode current (single crystal) 4.21 ( $\mu$ A)

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

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

Date: 3.16.19  
yy mm dd

Initials: KAA

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36.2

Purpose:

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8457 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

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

HMS  
p: +4.049  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 30.67  
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>3026</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>05:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.3e5</u>	hTRIG3 rate <u>2988</u>	hTRIG4 rate <u>1817</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>05:24</u>		hTRIG5 rate <u>505</u>	hTRIG6 rate <u>308</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>no data after 05:18 / beam off</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.30</u> ( $\mu$ A)	

Run Number: <u>3027</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>05:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.46e5</u>	hTRIG3 rate <u>11704</u>	hTRIG4 rate <u>7214</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>05:35</u>		hTRIG5 rate <u>6715</u>	hTRIG6 rate <u>4225</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>stop run data rate at 200 MB/s</u>			Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>96%</u>	Max NPS anode current (single crystal) <u>3.57</u> ( $\mu$ A)	

Run Number: <u>3028</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: _____	Start time (from RC): <u>05:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.62e6</u>	hTRIG3 rate <u>7909</u>	hTRIG4 rate <u>4939</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>06:29</u>		hTRIG5 rate <u>3513</u>	hTRIG6 rate <u>2126</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>no beam for 10 min. first of 4 1/4 LD2 ~ 06:19</u>			Events <u>5.5M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.5%</u>	Max NPS anode current (single crystal) <u>2.34</u> ( $\mu$ A)	

Run Number: <u>3029</u>	<input type="checkbox"/> LH2 10cm <input 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>06:37</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>7842</u>	hTRIG4 rate <u>4788</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>07:39</u>		hTRIG5 rate <u>3319</u>	hTRIG6 rate <u>2077</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>2/4</u>			Events <u>6.7M</u> Charge <u>29.53</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.6%</u>	Max NPS anode current (single crystal) <u>2.43</u> ( $\mu$ A)	

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

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

Date: 13, 11, 19  
yy mm dd

Initials: \_\_\_\_\_

Use a separate sheet for each configuration.

Kinematics: KinC\_x

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 8457 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

SHMS

NPS

$p$ : +10 4,042  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

$\theta$ (TV): 30.67  
Nearest 0.005

$\theta$  = 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>3030</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>07:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6e6</u>	hTRIG3 rate <u>7904</u>	hTRIG4 rate <u>4857</u>
$I_{beam}$ : <u>10</u> $\mu$ A			Stop time (from RC):		hTRIG5 rate <u>3410</u>	hTRIG6 rate <u>3554</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>#3/4</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.5</u>	Max NPS anode current (single crystal) <u>2.39</u> ( $\mu$ A)
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Run Number: <u>3031</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>08:41 am</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.95e+06</u>	hTRIG3 rate <u>7839.8</u>	hTRIG4 rate <u>4887.6</u>
$I_{beam}$ : <u>10</u> $\mu$ A			Stop time (from RC): <u>09:43 am</u>		hTRIG5 rate <u>3422.7</u>	hTRIG6 rate <u>2125</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>#4/4</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.4%</u>	Max NPS anode current (single crystal) <u>2.41</u> ( $\mu$ A)
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Run Number: <u>3032</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>09:45 am</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.55e+06</u>	hTRIG3 rate <u>5838</u>	hTRIG4 rate <u>3667</u>
$I_{beam}$ : <u>7.5</u> $\mu$ A			Stop time (from RC): <u>0</u>		hTRIG5 rate <u>1989</u>	hTRIG6 rate <u>1247</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>Some problem with NPS VME. Stop run. Reset DAQ</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>1.99</u> ( $\mu$ A)
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Run Number: <u>3033</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>0</u>	Start time (from RC): <u>10:07 am</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.56e+06</u>	hTRIG3 rate <u>5902</u>	hTRIG4 rate <u>3593</u>
$I_{beam}$ : <u>7.5</u> $\mu$ A			Stop time (from RC): <u>10:30 am</u>		hTRIG5 rate <u>2055</u>	hTRIG6 rate <u>1321</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.748%</u>	Max NPS anode current (single crystal) <u>2.04</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: 23/11/19  
yy mm dd

Initials: \_\_\_\_\_

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

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

HMS, field, current OK?  
 yes  no

$E_{beam}$ : 8.457 GeV

Raster:  On  Off  
 Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

3H07A	X	Y
<u>1.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.75</u> mm		<u>0.3</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: <u>3034</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>10:39 am</u> Stop time (from RC): <u>11:12 am</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.10e+06</u>	hTRIG3 rate <u>4069</u>	hTRIG4 rate <u>2507</u>	<input 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) 1.64 ( $\mu A$ )

Run Number: <u>3035</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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 type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: DAQ crash. Reset.  
 Events \_\_\_\_\_ Charge \_\_\_\_\_ C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) \_\_\_\_\_ ( $\mu A$ )

Run Number: <u>3036</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>3</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:18 am</u> Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.95e+06</u>	hTRIG3 rate <u>7734</u>	hTRIG4 rate <u>4865</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: Run stopped midway. Reset VME's.  
 Events \_\_\_\_\_ Charge \_\_\_\_\_ C  
 Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
 Max NPS anode current (single crystal) 2.12 ( $\mu A$ )

Run Number: <u>3037</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>3</u> 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 type="checkbox"/> Junk
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coin\_sparse  coin  coin\_sparse\_low   
 Comments: Stopped run. Reset DAQ. VTP4 disconnected - needed  
 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:     /     /      
yy mm dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**           

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

HMS, field, current OK?  
 yes  no

$E_{\text{beam}}$ : 8.457 GeV

Raster:  On  Off  
 Size:           

Beam position and angle on target:

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

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

**NPS**  
 $\theta$  = SHMS             
 -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  $I =$             Amp NPS Upstream Corr.  $I =$             Amp NPS Upstream Corr.  $I =$             Amp

<b>Run Number:</b> <u>3038</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>          </u> PS2: <u>          </u> PS3: <u>3</u> PS4: <u>          </u> PS5: <u>          </u> PS6: <u>          </u>	Start time (from RC): <u>          </u> Stop time (from RC): <u>          </u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
$I_{\text{beam}}$ : <u>10</u> $\mu\text{A}$					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>v1p1, v1p5 lost connection</u> <u>Reset DAQ</u>			Events <u>          </u> Charge <u>          </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )	

<b>Run Number:</b> <u>3040</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>          </u> PS2: <u>          </u> PS3: <u>3</u> PS4: <u>          </u> PS5: <u>          </u> PS6: <u>          </u>	Start time (from RC): <u>12:11 pm</u> Stop time (from RC): <u>          </u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.93e+06</u>	hTRIG3 rate <u>7826</u>	hTRIG4 rate <u>4867</u>
$I_{\text{beam}}$ : <u>10</u> $\mu\text{A}$					hTRIG5 rate <u>3334</u>	hTRIG6 rate <u>2121</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>3039 reset, 3040, 3041 reset.</u>			Events <u>          </u> Charge <u>          </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ ) <u>2.43</u>	

<b>Run Number:</b> <u>3046</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>          </u> PS2: <u>          </u> PS3: <u>3</u> PS4: <u>          </u> PS5: <u>          </u> PS6: <u>          </u>	Start time (from RC): <u>13:21</u> Stop time (from RC): <u>13:33</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.94e+06</u>	hTRIG3 rate <u>7813</u>	hTRIG4 rate <u>4837</u>
$I_{\text{beam}}$ : <u>10</u> $\mu\text{A}$					hTRIG5 rate <u>3400</u>	hTRIG6 rate <u>2105</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>DAQ not working properly.</u> <u>At the earlier runs found out impulses 50 K's.</u>			Events <u>          </u> Charge <u>          </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )	

<b>Run Number:</b> <u>          </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 type="checkbox"/>	PS1: <u>          </u> PS2: <u>          </u> PS3: <u>          </u> PS4: <u>          </u> PS5: <u>          </u> PS6: <u>          </u>	Start time (from RC): <u>          </u> Stop time (from RC): <u>          </u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
$I_{\text{beam}}$ : <u>          </u> $\mu\text{A}$					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>          </u>			Events <u>          </u> Charge <u>          </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )	

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

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

Date:    /   /     
yy mm dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics:**  $KinC\_x$  30-2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other:    

HMS, field, current OK?  
 yes  no

$E_{beam}$ :     GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

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

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

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

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

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

Run Number: <u>3058</u>	<input type="checkbox"/> LH2 10cm <input 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>+</u> PS2: <u>+</u> PS3: <u>3</u> PS4: <u>+</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>17:57</u> Stop time (from RC): <u>18:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate	<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:	Events <u>   </u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )
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Run Number: <u>3059</u>	<input type="checkbox"/> LH2 10cm <input 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>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>0</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>18:20</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	hTRIG3 rate	hTRIG4 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>CODA crashed.</u>	Events <u>   </u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )
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Run Number: <u>3060</u>	<input type="checkbox"/> LH2 10cm <input 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>   </u> PS2: <u>   </u> PS3: <u>   </u> PS4: <u>0</u> PS5: <u>   </u> PS6: <u>   </u>	Start time (from RC): <u>18:37</u> Stop time (from RC): <u>19:16</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	<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>   </u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ ) <u>2.2</u>
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Run Number: <u>3061</u>	<input type="checkbox"/> LH2 10cm <input 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>   </u> PS2: <u>   </u> PS3: <u>   </u> PS4: <u>0</u> PS5: <u>   </u> PS6: <u>0</u>	Start time (from RC): <u>19:19</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><math>1.71 \times 10^6</math></u>	hTRIG3 rate <u>4024</u>	hTRIG4 rate <u>2409</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:	Events <u>1.08160</u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>9990 1.04</u>	Max NPS anode current (single crystal) ( $\mu A$ ) <u>   </u>
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# $p(e,e'\gamma) p$ Run Sheet

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

Date:     /     /      
yy mm dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics:** *KinC\_x 30-2*

**Purpose:**

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

HMS, field,  
current OK?

yes  no

$E_{beam}$ : \_\_\_\_\_ GeV

Raster:  On  Off

Size: \_\_\_\_\_

Beam position and angle on target:

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

**HMS**

**SHMS**

**NPS**

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

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

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

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

Run Number:

*3062*

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: *0*

Start time (from RC):

*19:43*

Stop time (from RC):

*19:53*

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

*1.8x10<sup>6</sup>*

hTRIG3 rate

*7851*

hTRIG4 rate

*4895*

hTRIG5 rate

*3183*

hTRIG6 rate

*1890*

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: *Data Rate  $\approx$  500 MB/s*

Events *1.08M*  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

*95%*

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

*2.39*

Run Number:

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

- 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

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:

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

- 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

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:

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

- 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

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
in   
in\_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

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

Date:      /      /       
yy mm dd

Initials:     

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 36-211

$E_{\text{beam}}$ : 8458 GeV

Raster:  On  Off  
Size: 2x

**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**

$p$ : +/- -4042  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 32.905  
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:

3062

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

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

Start time (from RC):

20:52

Stop time (from RC):

21:56

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.7x10<sup>6</sup>

hTRIG3 rate

9877

hTRIG4 rate

6685

$I_{\text{beam}}$ : 30  $\mu\text{A}$

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:     

Events 7.7M  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui) 99

Max NPS anode current (single crystal) 3.07 ( $\mu\text{A}$ )

Run Number:

3064

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

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

Start time (from RC):

21:57

Stop time (from RC):

23:00

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.6x10<sup>6</sup>

hTRIG3 rate

10K

hTRIG4 rate

6.7K

$I_{\text{beam}}$ : 36  $\mu\text{A}$

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:     

Events 7.79M  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui) 3.68 C

Max NPS anode current (single crystal) 99% ( $\mu\text{A}$ )

Run Number:

3065

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

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

Start time (from RC):

23:02

Stop time (from RC):

23:24

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.15x10<sup>6</sup>

hTRIG3 rate

6638

hTRIG4 rate

4481

$I_{\text{beam}}$ : 24  $\mu\text{A}$

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:     

Events       
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui) 99%

Max NPS anode current (single crystal) 2.36 ( $\mu\text{A}$ )

Run Number:

3066

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

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

Start time (from RC):

23:26

Stop time (from RC):

23:48

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

5.2x10<sup>5</sup>

hTRIG3 rate

3342

hTRIG4 rate

2312

$I_{\text{beam}}$ : 12  $\mu\text{A}$

Data ok  
 Junk

coin\_sparse   
in   
in\_sparse\_low

Comments:     

Events 437K  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 1.90 ( $\mu\text{A}$ )

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

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

Date: 23 / 11 / 20  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36211

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : 8.456 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 $p$ : +/-  $1\mu - 4.0920$   
From GUI  $\theta$ (TV): 17.015  
Nearest 0.005

**SHMS**  
 $\theta$ (TV): 32.905  
Nearest 0.005

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

3H07A	X	Y
<u>1.7</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.71</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>3067</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>2</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:51</u> Stop time (from RC): <u>00:16</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.19 \cdot 10^6</math></u>	hTRIG3 rate <u>10021.6</u>	hTRIG4 rate <u>6733.4</u>
$I_{beam}$ : <u>36</u> $\mu A$	Comments:			Events <u>40.31</u> Charge <u>mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0.00 %</u>	Max NPS anode current (single crystal) <u>3.71</u> ( $\mu A$ )	

Run Number: <u>3068</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</u> Stop time (from RC): <u>01:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>7.77 \cdot 10^5</math></u>	hTRIG3 rate <u>6722</u>	hTRIG4 rate <u>4536</u>
$I_{beam}$ : <u>24</u> $\mu A$	Comments:			Events <u>9.7M</u> Charge <u>48.16</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.95%</u>	Max NPS anode current (single crystal) <u>1.81</u> <u>2.39</u> ( $\mu A$ )	

Run Number: <u>3069</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>0</u>	Start time (from RC): <u>1:18</u> Stop time (from RC): <u>1:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>3.89 \cdot 10^5</math></u>	hTRIG3 rate <u>3360.1</u>	hTRIG4 rate <u>2264</u>
$I_{beam}$ : <u>12</u> $\mu A$	Comments:			Events <u>1.3M</u> Charge <u>15.58</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.95</u>	Max NPS anode current (single crystal) <u>1.87</u> ( $\mu A$ )	

Run Number: <u>3070</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>3</u>	Start time (from RC): <u>1:48</u> Stop time (from RC): <u>1:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.17 \cdot 10^6</math></u>	hTRIG3 rate <u>9907.8</u>	hTRIG4 rate <u>6678.9</u>
$I_{beam}$ : <u>36</u> $\mu A$	Comments:			Events <u>266K</u> Charge <u>20.96</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100.00</u>	Max NPS anode current (single crystal) <u>3.13</u> ( $\mu A$ )	

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

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

Date: 23 / 11 / 20  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36-2

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: \_\_\_\_\_ GeV

Raster:  On  Off

Size: \_\_\_\_\_

Beam position and angle on target:

3H07A	X	Y
_____ mm	_____ mm	_____ mm
Nomin:		Nomin:
3H07C	X	Y
_____ mm	_____ 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 = \_\_\_\_\_ Amp

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

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

Run Number:

3071

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

2:22

Stop time (from RC):

2:43

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.18 · 10<sup>6</sup>

hTRIG3 rate

10685.1

hTRIG4 rate

6444.5

hTRIG5 rate

3869.9

hTRIG6 rate

2447.3

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 2.06M  
Charge 30.34 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.55%

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

Run Number:

3072

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

2:47

Stop time (from RC):

3:15

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

5.59 · 10<sup>5</sup>

hTRIG3 rate

5463.7

hTRIG4 rate

3257

hTRIG5 rate

984.8

hTRIG6 rate

621.6

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 964K  
Charge 17.24 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.84%

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

Run Number:

3073

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

3:28

Stop time (from RC):

3:29

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:

data rate ~ 250 K/s

Events 160K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3074

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

3:33

Stop time (from RC):

3:35

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:

data rate ~ 200 K/s

Events 291K  
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: 23 / 11 / 20  
 yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36.2**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: \_\_\_\_\_ GeV

Raster:  On  Off  
 Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

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

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

<b>Run Number:</b> 3075	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 0	Start time (from RC): 3:37 Stop time (from RC): 3:42	<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> : 12 $\mu$ A	Comments: data rate too <del>high</del> low ~ 75 MB/s			Events 435K Charge 2.37 mC	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

<b>Run Number:</b> 3076	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 0	Start time (from RC): 3:46 Stop time (from RC): 3:48	<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> : 15 $\mu$ A	Comments: data rate still > 100 MB/s			Events 130K Charge 0.57 mC	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

<b>Run Number:</b> 3077	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 0	Start time (from RC): 3:51 Stop time (from RC): 4:56	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate 1.21 $\cdot 10^6$	hTRIG3 rate 10218.9	hTRIG4 rate 640.5	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 13 $\mu$ A	Comments: Finally! ~ 100 MB/s, 1 hour, 1/4			Events 8.3M Charge 42.65 mC	Active trigger LiveTime fraction (NPS Scaler Gui) 99.502%	Max NPS anode current (single crystal) ( $\mu$ A) 2.29		

<b>Run Number:</b> 3078	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 0	Start time (from RC): 4:59 Stop time (from RC): 6:15	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.20 $\cdot 10^6$	hTRIG3 rate 10174	hTRIG4 rate 6271	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 13 $\mu$ A	Comments: 1 hour, 3/4			Events 7.47M Charge 38.29 mC	Active trigger LiveTime fraction (NPS Scaler Gui) 99.61%	Max NPS anode current (single crystal) ( $\mu$ A) 2.38 $\mu$ A		



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

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

Date: 23 / 11 / 20  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36\_2**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.29</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.69</u> mm	<u>0.30</u> 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:**

3079

I<sub>beam</sub>: 13  $\mu$ 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: 0

Start time (from RC):  
6:19

Stop time (from RC):  
7:24

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

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

hTRIG3 rate  
10249.6

hTRIG4 rate  
6295.2

hTRIG5 rate  
3896.3

hTRIG6 rate  
2433.1

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1 hour, 3/4

Events 8.2M  
Charge 4224 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.54%

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

**Run Number:**

3080

I<sub>beam</sub>: 13  $\mu$ 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: 0

Start time (from RC):  
7:29

Stop time (from RC):  
8:31

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

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

hTRIG3 rate  
10183.3

hTRIG4 rate  
6348.9

hTRIG5 rate  
3776.

hTRIG6 rate  
2428.7

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1 hour, 4/4

Events 6928k  
Charge 35.5C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.602%

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

**Run Number:**

3081

I<sub>beam</sub>: 10  $\mu$ 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: 0

Start time (from RC):  
8:34

Stop time (from RC):  
09:02

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

hTRIG1 rate  
1380k

hTRIG3 rate  
7862.0

hTRIG4 rate  
4986.1

hTRIG5 rate  
2412.3

hTRIG6 rate  
1458.1

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 20 min run  $\rightarrow$  kept it longer before the access

Events 2.5M  
Charge 16.35 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.915%

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

**Run Number:**

3082

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

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

- Data ok
- Junk

coin\_sparse   
coin   
in\_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:Runsheet\_dvcs\_NPS.pdf

Use a separate sheet for each configuration.

Date:      /      /       
 yy mm dd

Initials:     

**Kinematics: KinC\_x**     

**Purpose:**

- Production
- Test
- Optics
- Other:

HMS, field, current OK?

yes  no

$E_{beam}$ :      GeV

Raster:  On  Off

Size:     

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  
 $I =$       Amp

NPS Upstream Corr.  
 $I =$       Amp

NPS Upstream Corr.  
 $I =$       Amp

Run Number:

3086

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

PS1: -1  
 PS2: -1  
 PS3: 7  
 PS4: -1  
 PS5: -1  
 PS6: 0

Start time (from RC):

16:45

Stop time (from RC):

17:45

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.77x10<sup>6</sup>

hTRIG3 rate

10010.9

hTRIG4 rate

2458.4

hTRIG5 rate

4180.3

hTRIG6 rate

1262.8

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Edtm was set to 500

Events 4000 K  
 Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3087

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

PS1: -1  
 PS2: -1  
 PS3: -1  
 PS4: 7  
 PS5: -1  
 PS6: 0

Start time (from RC):

17:51

Stop time (from RC):

18:50

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.91x10<sup>6</sup>

hTRIG3 rate

10474.6

hTRIG4 rate

2487.2

hTRIG5 rate

4639.0

hTRIG6 rate

1338.6

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Edtm was set to 500

Events 4672 K  
 Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3088

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

PS1: -1  
 PS2: -1  
 PS3: 7  
 PS4: 7  
 PS5: -1  
 PS6: 0

Start time (from RC):

18:59

Stop time (from RC):

19:25

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.66x10<sup>6</sup>

hTRIG3 rate

6637

hTRIG4 rate

1740.8

hTRIG5 rate

3738.7

hTRIG6 rate

1150.1

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Edtm was set to 500

Events 1697 K  
 Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3089

- 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: 0

Start time (from RC):

19:25

Stop time (from RC):

19:51

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.24x10<sup>6</sup>

hTRIG3 rate

6251.1

hTRIG4 rate

1294.4

hTRIG5 rate

3276.0

hTRIG6 rate

688

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Edtm was set to ~~500~~ 40

Events       
 Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A)  
 4.47

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

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

Date: 23 / 0 /   
 yy mm dd

Initials: \_\_\_\_\_

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>: \_\_\_\_\_ GeV

Raster:  On  Off

Size: \_\_\_\_\_

Beam position and angle on target:

3H07A	X	Y
_____ mm	_____ mm	_____ mm
Nomin:	Nomin:	
3H07C	X	Y
_____ mm	_____ 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 = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number:

3090

- 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: 0

Start time (from RC):  
19:52

Stop time (from RC):  
~~20:13~~  
8:36 K

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

hTRIG1 rate  
2.23x06

hTRIG3 rate  
6145.5

hTRIG4 rate  
1275.1

hTRIG5 rate  
3220.4

hTRIG6 rate  
703.

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: El photo sensor was in wrong position  
edtm = 40

Events 836 K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3091

- 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: 0

Start time (from RC):  
20:20

Stop time (from RC):  
20:50

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

hTRIG1 rate  
2.31x06

hTRIG3 rate  
6575.8

hTRIG4 rate  
1305.4

hTRIG5 rate  
3670.4

hTRIG6 rate  
753.6

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: edtm = 40 1/2 hrs

Events 1056 K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3092

- 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: 0

Start time (from RC):  
21:29

Stop time (from RC):  
21:58

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

hTRIG1 rate  
2.28x06

hTRIG3 rate  
6366

hTRIG4 rate  
1384.1

hTRIG5 rate  
3507.8

hTRIG6 rate  
769

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1/2 hrs continued

Events 1274 K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3093

- 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: 0

Start time (from RC):  
22:04

Stop time (from RC):  
22:13

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

hTRIG1 rate  
2.23x06

hTRIG3 rate  
6175.0

hTRIG4 rate  
1271.2

hTRIG5 rate  
3291.1

hTRIG6 rate  
699.0

- Data ok
- Junk

coin\_sparse   
in   
in\_sparse\_low

Comments: Just took extra run for LD2 so that we can get data with correct edtm.  
(bonus)

Events 148 K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

short for edge

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

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

Date: 23/11/21  
yy mm dd

Initials: cp

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 36-2"

**Purpose:**

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

HMS, field,  
current OK?

yes  no

$E_{\text{beam}}$ : 8.456 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.699</u> mm		<u>0.297</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.718</u> mm		<u>0.298</u> mm
Nomin:		Nomin:

**HMS**

$p$ : +04.042  $\theta$ (TV): 17.010  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 32.895  
Nearest 0.005

**NPS**

$\theta$  = SHMS  
-16.30° Nearest 0.005

**Collimator:**

HMS: Large   
Sieve

NPS Sweep Magnet  
 $I$  = 468 Amp

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

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

Run Number:

3094

$I_{\text{beam}}$ : 8  $\mu\text{A}$

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

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

Start time (from RC):

22:23

Stop time (from RC):

22:51

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.23706

hTRIG3 rate

6231

hTRIG4 rate

1258

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 826K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3095

$I_{\text{beam}}$ : 7  $\mu\text{A}$

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

1:39

Stop time (from RC):

1:52

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

7.31-10<sup>5</sup>

hTRIG3 rate

5601.1

hTRIG4 rate

3425.0

Data ok

Junk ?

coin\_sparse   
coin   
coin\_sparse\_low

Comments: CODA has wrong SHMS & bp I prestarted before Monag SHMS

Events 540K  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3096

$I_{\text{beam}}$ : 7  $\mu\text{A}$

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

1:58

Stop time (from RC):

2:22

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

7.47-10<sup>5</sup>

hTRIG3 rate

5574.8

hTRIG4 rate

3378.2

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1M  
Charge 8.72 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3097

$I_{\text{beam}}$ : 13  $\mu\text{A}$

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

2:23

Stop time (from RC):

2:24

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
in   
in\_sparse\_low

Comments: initiated by accident or by remote user/accident.

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

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

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

Date: 23/11/21  
yy mm dd

Initials: \_\_\_\_\_

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 36-2"

E<sub>beam</sub>: 8.456 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

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

Run Number:

3098

I<sub>beam</sub>: 13  $\mu$ A

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: 2  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

2:30

Stop time (from RC):

2:53

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

1.38 · 10<sup>6</sup>

hTRIG3 rate

10132.9

hTRIG4 rate

6224.4

hTRIG5 rate

4245.4

hTRIG6 rate

636.9

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 3.6M  
Charge 128  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 0.08%

Max NPS anode current (single crystal) 2.89 ( $\mu$ A)

Run Number:

3099

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

- 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):

2:56

Stop time (from RC):

3:16

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

1.06 · 10<sup>6</sup>

hTRIG3 rate

7923.6

hTRIG4 rate

4858.8

hTRIG5 rate

2506.0

hTRIG6 rate

1642.1

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Helicity in 50k; PEBC1 error

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

Active trigger LiveTime fraction (NPS Scaler Gui) 0.0

Max NPS anode current (single crystal) 2.31 ( $\mu$ A)

Run Number:

3100

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

- 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):

3:33

Stop time (from RC):

4:19

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

1.06 · 10<sup>6</sup>

hTRIG3 rate

7846.8

hTRIG4 rate

4753.0

hTRIG5 rate

2606.3

hTRIG6 rate

1565.3

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: See helicity in 50k

Events 10.3M  
Charge 20.4  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 222 0.0%

Max NPS anode current (single crystal) 2.25 ( $\mu$ A)

Run Number:

3101

I<sub>beam</sub>: 7  $\mu$ A

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

Start time (from RC):

4:24

Stop time (from RC):

4:45

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

7.19 · 10<sup>5</sup>

hTRIG3 rate

5405.7

hTRIG4 rate

3284.2

hTRIG5 rate

1600.6

hTRIG6 rate

1044.5

Data ok

Junk

coin\_sparse   
coin   
in\_sparse\_low

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

Events 1.2M  
Charge 7.71  $\mu$ C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.927%

Max NPS anode current (single crystal) 1.61 ( $\mu$ A)

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

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

Date: 23, 11, 21  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 36-2"

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8.456 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: +04.042  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 32.895  
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 = 81 Amp NPS Upstream Corr. I = 81 Amp

Run Number: <u>3102</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>2</u>	Start time (from RC): <u>4:53</u> Stop time (from RC): <u>4:53</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>13</u> $\mu$ A					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: <u>200 MB/s</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>3103</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>3</u>	Start time (from RC): <u>4:56</u> Stop time (from RC): <u>5:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3810<sup>6</sup></u>	hTRIG3 rate <u>4</u>	hTRIG4 rate
I <sub>beam</sub> : <u>13</u> $\mu$ A					hTRIG5 rate	hTRIG6 rate	<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>1921</u> Charge <u>5.21</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.82%</u>	Max NPS anode current (single crystal) ( $\mu$ A)
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Run Number: <u>3104</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>0</u>	Start time (from RC): <u>5:21</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>1.2410<sup>6</sup></u>	hTRIG3 rate <u>10055.3</u>	hTRIG4 rate <u>6119.2</u>
I <sub>beam</sub> : <u>13</u> $\mu$ A					hTRIG5 rate <u>2395.0</u>	hTRIG6 rate <u>1570.</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>TRIG/Deadtime test</u> <u>coin_sparse - 1gamma</u>	Events <u>3.5M</u> Charge <u>28.50</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.83%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.58</u>
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Run Number: <u>3105</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>0</u>	Start time (from RC): <u>6:06</u> Stop time (from RC): <u>6:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.57x10<sup>5</sup></u>	hTRIG3 rate <u>5480.</u>	hTRIG4 rate <u>330.5</u>
I <sub>beam</sub> : <u>7</u> $\mu$ A					hTRIG5 rate <u>777.5</u>	hTRIG6 rate <u>503.1</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>trig/deadtime test</u> <u>coin - sparse - 1gamma</u>	Events <u>1.4M</u> Charge <u>18.44</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.966%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>1.59</u>
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# p(e,e' $\gamma$ ) p Run Sheet

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

Date: 23, 11, 21  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-2'**

**Purpose:**

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

HMS, field, current OK?  
yes  no

NMR  
(not)  
(needed)

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
Size: 2x2

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>0.69</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:

**HMS**  
p: +04.042  $\theta$ (TV): 17.015  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 28.76  
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 = \_\_\_\_\_ Amp NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 3106  
I<sub>beam</sub>: 24  $\mu$ A

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

PS1: \_\_\_\_\_ PS2: \_\_\_\_\_ PS3: \_\_\_\_\_ PS4: \_\_\_\_\_ PS5: \_\_\_\_\_ PS6: 0

Start time (from RC): 7:27  
Stop time (from RC): 8:27

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.33x10<sup>6</sup> hTRIG3 rate: 6814.5 hTRIG4 rate: 4471.3  
hTRIG5 rate: 3486.5 hTRIG6 rate: 2470.0

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

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

Events 7.2M Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui): 0.3

Max NPS anode current (single crystal): 99 ( $\mu$ A)

Run Number: 3107  
I<sub>beam</sub>: 24  $\mu$ A

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

PS1: \_\_\_\_\_ PS2: \_\_\_\_\_ PS3: \_\_\_\_\_ PS4: \_\_\_\_\_ PS5: \_\_\_\_\_ PS6: 0

Start time (from RC): 8:29  
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: End due to trying to lock NMR

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

Active trigger LiveTime fraction (NPS Scaler Gui): 0.56

Max NPS anode current (single crystal): 99% ( $\mu$ A)

Run Number: 3108  
I<sub>beam</sub>: 24  $\mu$ A

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

PS1: \_\_\_\_\_ PS2: \_\_\_\_\_ PS3: \_\_\_\_\_ PS4: \_\_\_\_\_ PS5: \_\_\_\_\_ PS6: 0

Start time (from RC): 8:43  
Stop time (from RC): 9:43

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.24x10<sup>6</sup> hTRIG3 rate: 6589 hTRIG4 rate: 4456  
hTRIG5 rate: 3403 hTRIG6 rate: 2329

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

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

Events 7.1M Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui): 99%

Max NPS anode current (single crystal): 0.5 ( $\mu$ A)

Run Number: 3109  
I<sub>beam</sub>: 16  $\mu$ A

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

PS1: \_\_\_\_\_ PS2: \_\_\_\_\_ PS3: \_\_\_\_\_ PS4: \_\_\_\_\_ PS5: \_\_\_\_\_ PS6: 0

Start time (from RC): 9:45  
Stop time (from RC): 10:45

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 1.74x10<sup>6</sup> hTRIG3 rate: 4481 hTRIG4 rate: 3081  
hTRIG5 rate: 1796 hTRIG6 rate: 1189

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

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

Events 1.3M Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui): 99%

Max NPS anode current (single crystal): 4.55 ( $\mu$ A)

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

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

Use a separate sheet for each configuration.

Date:      /      /       
yy mm dd

Initials:     

**Kinematics: KinC\_x 36-21**

E<sub>beam</sub>:      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
	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 =      Amp

NPS Upstream Corr.  
I =      Amp

NPS Upstream Corr.  
I =      Amp

Run Number:

3110

I<sub>beam</sub>: 8  $\mu$ A

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

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

Start time (from RC):  
10:08

Stop time (from RC):  
10:29

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

hTRIG1 rate  
9.36x10<sup>5</sup>

hTRIG3 rate  
2302

hTRIG4 rate  
1524

hTRIG5 rate  
482

hTRIG6 rate  
359

- Data ok
- Junk

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

Comments:     

Events 440K  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100

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

Run Number:

3111

I<sub>beam</sub>: 8  $\mu$ A

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

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

Start time (from RC):  
10:40

Stop time (from RC):  
10:53

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

hTRIG1 rate  
2.18x10<sup>6</sup>

hTRIG3 rate  
6282

hTRIG4 rate  
3864

hTRIG5 rate  
3266

hTRIG6 rate  
2009

- Data ok
- Junk

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

Comments:     

Events 1.35M  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99

Max NPS anode current (single crystal)  
4103 ( $\mu$ A)

Run Number:

3112

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

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

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

Start time (from RC):  
10:56

Stop time (from RC):  
11:23

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

hTRIG1 rate  
2.41x10<sup>6</sup>

hTRIG3 rate  
7765

hTRIG4 rate  
4793

hTRIG5 rate  
4556

hTRIG6 rate  
2799

- Data ok
- Junk

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

Comments:     

Events 2.75M  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100

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

Run Number:

3113

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

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

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

Start time (from RC):  
12:12

Stop time (from RC):  
13:08

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

hTRIG1 rate  
2.42x10<sup>6</sup>

hTRIG3 rate  
7760

hTRIG4 rate  
4763

hTRIG5 rate  
4498

hTRIG6 rate  
2751

- Data ok
- Junk

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

Comments:     

Events 8.5M  
Charge      C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99

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



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

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

Date: 11/21/23  
yy mm dd

Initials: JR

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>: \_\_\_\_\_ GeV

Raster:  On  Off

Size: \_\_\_\_\_

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 = \_\_\_\_\_ Amp

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

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

Run Number:

314

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

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

PS1: -1  
PS2: 0  
PS3: -1  
PS4: -1  
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: LED Window offset 7000  
coin vld Window width 440

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

315

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

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

PS1: -1  
PS2: 0  
PS3: -1  
PS4: -1  
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: check scintillators

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

316

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

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

PS1: -1  
PS2: 0  
PS3: -1  
PS4: -1  
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: coin cosmic (8.9 kevt)

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

317

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

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

PS1: -1  
PS2: 0  
PS3: -1  
PS4: -1  
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: coin vld/all columns blinked

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Sweeper magnet off.

800k events.

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

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

Date: 11/21/23  
yy mm dd

Initials: JP

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>: \_\_\_\_\_ GeV

Raster:  On  Off  
Size: \_\_\_\_\_

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

Run Number:

3118

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

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

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

Start time (from RC):

22:24

Stop time (from RC):

23:02

- 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: LED all columns.  
Sweeper magnet on.

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3119

I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC):

00:07

Stop time (from RC):

1:21

- 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 6.4M  
Charge 109.11 nC

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3120

I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC):

1:25

Stop time (from RC):

2:38

- 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 6.7M  
Charge 129.24 nC

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3121

I<sub>beam</sub>: 24  $\mu$ 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: 0

Start time (from RC):

2:42

Stop time (from RC):

3:15

- 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 1.579M  
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:   /  /    
yy mm dd

Initials:       

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-1**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: \_\_\_\_\_ GeV

Raster:  On  Off  
Size: \_\_\_\_\_

Beam position and angle on target:

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

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

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

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

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

<b>Run Number:</b> 3122	<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: -1 PS5: -1 PS6: 0	Start time (from RC): 3:18	Stop time (from RC): 3:41	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate 349.10 <sup>5</sup>	hTRIG3 rate 2273.8	hTRIG4 rate 1807.9	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 12 $\mu$ A	Comments: RF cavity HV problem, interrupted run after ~10 min.			Events 190k Charge 7.28 mC	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) 13.43 ( $\mu$ A)			

<b>Run Number:</b> 3123	<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: -1 PS5: -1 PS6: 0	Start time (from RC): <del>7:48</del> 7:55	Stop time (from RC): 8:27	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate 3.64 $\cdot 10^5$	hTRIG3 rate 2199.2	hTRIG4 rate 1807.8	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 12 $\mu$ A	Comments: <del>RF</del>			Events 438k Charge 19.5 mC	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 9.99 ( $\mu$ A)			

<b>Run Number:</b> 3124	<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: 2 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 8:41	Stop time (from RC): 9:06	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1620k	hTRIG3 rate 6702.4	hTRIG4 rate 5294.8	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 36 $\mu$ A	Comments:			Events 2896k Charge 42.93 mC	Active trigger LiveTime fraction (NPS Scaler Gui) <del>100%</del>	Max NPS anode current (single crystal) 5.98 ( $\mu$ A)			

<b>Run Number:</b> 3125	<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): 9:10	Stop time (from RC): 9:30	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1060k	hTRIG3 rate 4416.2	hTRIG4 rate 3515.8	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 24 $\mu$ A	Comments: No end of run entry due to the PEB1 error.			Events 3460k Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) 4.27 ( $\mu$ A)			

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

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

Date: 23 / 11 / 22  
yy mm dd

Initials: Hao

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-1

Purpose:

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS

p: +7 4.726  $\theta$ (TV): 16.75  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 433.38  
Nearest 0.005

NPS

$\theta$  = SHMS 17.08  
-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>3126</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>9:37</u> Stop time (from RC): <u>10:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1070k</u> hTRIG5 rate <u>1040.6</u>	hTRIG3 rate <u>4459</u> hTRIG6 rate <u>829.2</u>	hTRIG4 rate <u>3528.6</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:	Events <u>4077k</u> Charge <u>25.56 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.33</u> ( $\mu$ A)
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Run Number: <u>3127</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>0</u>	Start time (from RC): <u>10:05</u> Stop time (from RC): <u>10:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1880k</u> hTRIG5 rate <u>929.2</u>	hTRIG3 rate <u>2203.8</u> hTRIG6 rate <u>758.1</u>	hTRIG4 rate <u>1756.4</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 checked="" type="checkbox"/>	Comments: <u>beam tripped after running for 15 min.</u>	Events <u>693k</u> Charge <u>9.94 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>2.06</u> ( $\mu$ A)
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Run Number: <u>3128</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>0</u>	Start time (from RC): <u>10:41</u> Stop time (from RC): <u>10:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1880k</u> hTRIG5 rate <u>944.5</u>	hTRIG3 rate <u>2280.3</u> hTRIG6 rate <u>753.2</u>	hTRIG4 rate <u>1822.6</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	--	---	---	---	--	---	--

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>	Comments:	Events <u>440k</u> Charge <u>6.65 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>1.69</u> ( $\mu$ A)
--	-----------	---	--	---

Run Number: <u>3129</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>2</u>	Start time (from RC): <u>10:56</u> Stop time (from RC): <u>10:59</u>	<input checked="" 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
----------------------------	--	---	---	---	--------------------------------	--------------------------------	---

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>the data rate is 125 MB/s we will start a new run with ps6</u>	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:     /    /      
yy mm dd

Initials: Hao

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>: 8.456 GeV

Raster:  On  Off  
Size: \_\_\_\_\_

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: +0.476  $\theta$ (TV): 16.95  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 33.38  
Nearest 0.005

**NPS**

$\theta$  = SHMS 17.08  
-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:

3130

I<sub>beam</sub>: 36  $\mu$ 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: 3

Start time (from RC):  
11:01

Stop time (from RC):  
11:13

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

hTRIG1 rate  
1390k

hTRIG3 rate  
6634.4

hTRIG4 rate  
5271.5

hTRIG5 rate  
1988.9

hTRIG6 rate  
1596.9

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data rate: 75 MB/s

Events 206k  
Charge 21.62 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

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

Run Number:

3131

I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC):  
11:27

Stop time (from RC):  
11:41

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

hTRIG1 rate  
1630k

hTRIG3 rate  
6425.3

hTRIG4 rate  
4651.2

hTRIG5 rate  
2186.1

hTRIG6 rate  
1605.0

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: timing shift in vme2.

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

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.8%

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

Run Number:

3132-3138

I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC):  
11:43

Stop time (from RC):  
11:55

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

hTRIG1 rate  
1610k

hTRIG3 rate  
6249.2

hTRIG4 rate  
4579.7

hTRIG5 rate  
2085.7

hTRIG6 rate  
1548.3

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: timing shift in vme2

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

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.8%

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

Run Number:

3136

I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC):  
12:27

Stop time (from RC):  
12:49

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

hTRIG1 rate  
1600k

hTRIG3 rate  
6293.7

hTRIG4 rate  
4545.8

hTRIG5 rate  
2111.3

hTRIG6 rate  
1545.0

- Data ok
- Junk

coin\_sparse   
rin   
rin\_sparse\_low

Comments: timing shift resolved after rebrotoed all vme crates.

Events 1689k  
Charge 36.4 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

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

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

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

Date:     /    /      
yy mm dd

Initials: Har

Use a separate sheet for each configuration.

**Kinematics: KinC\_x  $\leq 0-1$**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 8.486 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>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

p: +04.726  $\theta$ (TV): 16.75  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 33.38  
Nearest 0.005

**NPS**

$\theta$  = SHMS 17.08  
-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:

3137

- 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: 0

Start time (from RC):

12:52

Stop time (from RC):

13:10

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

hTRIG1 rate

750k

hTRIG3 rate

3239.7

hTRIG4 rate

2376.1

hTRIG5 rate

549.2

hTRIG6 rate

414.5

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LD2, 1 hour, 1/4

Events 407k  
Charge 16.92 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

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

Run Number:

3138

- 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: 0

Start time (from RC):

13:24

Stop time (from RC):

14:25

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

hTRIG1 rate

1840k

hTRIG3 rate

6992.9

hTRIG4 rate

5328.2

hTRIG5 rate

2746.9

hTRIG6 rate

2104.8

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LD2, 1 hour, 1/4

Events 7340k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.7%

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

Run Number:

3139

- 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: 0

Start time (from RC):

14:27

Stop time (from RC):

15:27

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

hTRIG1 rate

1540k

hTRIG3 rate

5904.9

hTRIG4 rate

4452.9

hTRIG5 rate

2315.4

hTRIG6 rate

1772.1

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: LD2, 1 hour, 3/4

Events 6291k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.6%

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

Run Number:

3140

- 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: 0

Start time (from RC):

15:31

Stop time (from RC):

16:40

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

hTRIG1 rate

1840k

hTRIG3 rate

7184.6

hTRIG4 rate

5425.2

hTRIG5 rate

2862.1

hTRIG6 rate

2179.2

Data ok

Junk

coin\_sparse   
rin   
rin\_sparse\_low

Comments: LD2, 1 hour, 3/4

Events 8130.52k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.9%

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

# p(e,e') p Run Sheet

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

Date:    /   /     
yy mm dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics: KinC\_x\_50-1**

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>1.7</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: +/-     θ(TV): 16.75  
From GUI Nearest 0.005

**SHMS**

θ(TV): 33.38  
Nearest 0.005

**NPS**

θ = SHMS 17.08  
-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:

3141

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: 0

Start time (from RC):  
1724

Stop time (from RC):  
1841

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
1.84 e+06

hTRIG3 rate  
7158

hTRIG4 rate  
5372

hTRIG5 rate  
2757

hTRIG6 rate  
2151

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4/4 1hr. run LD2

Events      
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.95

Max NPS anode current (single crystal)  
4.10 (μA)

Run Number:

3142

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: 0

Start time (from RC):  
1843

Stop time (from RC):  
1908

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
1.27 e+06

hTRIG3 rate  
4705

hTRIG4 rate  
3558

hTRIG5 rate  
1286

hTRIG6 rate  
998

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 20 min; 10 μA

Events      
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.45%

Max NPS anode current (single crystal)  
2.85 (μA)

Run Number:

3143

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: 0

Start time (from RC):  
1911

Stop time (from RC):  
1933

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
6.02 e+05

hTRIG3 rate  
2393

hTRIG4 rate  
1828

hTRIG5 rate  
357

hTRIG6 rate  
267

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 20 min; 5 μA

Events      
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
1.13 (μA)

Run Number:

3144

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

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

Start time (from RC):  
1938

Stop time (from RC):  
2002

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
1.84 e+06

hTRIG3 rate  
7168

hTRIG4 rate  
5371

hTRIG5 rate  
2841

hTRIG6 rate  
2138

Data ok  
 Junk

coin\_sparse   
in   
in\_sparse\_low

Comments: 20 min; 15 μA; #

Events      
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
3.96 (μA)

# p(e,e') 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\_x**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 8.457 GeV

Raster:  On  Off  
Size: \_\_\_\_\_

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: +/- \_\_\_\_\_ θ(TV): 16.75  
From GUI Nearest 0.005

**SHMS**

θ(TV): 33.38  
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:

3145

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):

2005

Stop time (from RC):

2052

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

hTRIG1 rate

1.28e+06

hTRIG3 rate

4702

hTRIG4 rate

3561

hTRIG5 rate

1281

hTRIG6 rate

998.3

- 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)  
2.67 (μA)

Run Number:

3146

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: -1  
PS5: -1  
PS6: 0

Start time (from RC):

2057

Stop time (from RC):

2121

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

hTRIG1 rate

1.84e+06

hTRIG3 rate

2458

hTRIG4 rate

1819

hTRIG5 rate

967

hTRIG6 rate

742

- 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:

3147

I<sub>beam</sub>: 15 μA

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

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: 0

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: Test for PS6 value to keep data rate < 100 MB/s.

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
(μA)

Run Number:

3149

I<sub>beam</sub>: 15 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: -1  
PS6: 3

Start time (from RC):

2131

Stop time (from RC):

2144

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

hTRIG1 rate

1.65e+06

hTRIG3 rate

7228

hTRIG4 rate

5447

hTRIG5 rate

2475

hTRIG6 rate

1853

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: PS6 = 3.

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
4.10 (μA)



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

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

Date:      /      /      Initials:     

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-1**

E<sub>beam</sub>: 8.457 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: +/-       $\theta$ (TV): 16.75  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 35.28  
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: 3150  
I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC): 2224  
Stop time (from RC): 2340

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.12 e+06  
hTRIG5 rate: 1640

hTRIG3 rate: 6678  
hTRIG6 rate: 1304

hTRIG4 rate: 5361  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1/2 1-hr run.

Events       
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.878%

Max NPS anode current (single crystal): 4.43 ( $\mu$ A)

Run Number: 3151  
I<sub>beam</sub>: 36  $\mu$ 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: 0

Start time (from RC): 2342  
Stop time (from RC): 1:51

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.14 e+06  
hTRIG5 rate: 1663

hTRIG3 rate: 6678  
hTRIG6 rate: 1236

hTRIG4 rate: 5262  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 212 hr. run

Events 89M  
Charge 200 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.915%

Max NPS anode current (single crystal): 4.2 ( $\mu$ A)

234.62 mC

Run Number: 3152  
I<sub>beam</sub>: 24  $\mu$ 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: 0

Start time (from RC): 1:56  
Stop time (from RC): 2:16

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 4.36 · 10<sup>5</sup>  
hTRIG5 rate: 725.8

hTRIG3 rate: 4484.0  
hTRIG6 rate: 564.9

hTRIG4 rate: 3581.6  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:     

Events 566K  
Charge 22.37 mC

Active trigger LiveTime fraction (NPS Scaler Gui):     

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

Run Number: 3153  
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: 0

Start time (from RC): 2:22  
Stop time (from RC): 2:43

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.18 · 10<sup>5</sup>  
hTRIG5 rate: 212.0

hTRIG3 rate: 2335.6  
hTRIG6 rate: 201.3

hTRIG4 rate: 1875.1  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:     

Events 232K  
Charge 14.3% mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.935%

Max NPS anode current (single crystal): 1.19 ( $\mu$ A)

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

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

Date: 23/11/23  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50\_1**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.7	mm	0.29
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- \_\_\_\_\_  $\theta$ (TV): 16.75  
From GUI Nearest 0.005

$\theta$ (TV): 35.28  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

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

**Run Number:**

3154

I<sub>beam</sub>: 36  $\mu$ A

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

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

Start time (from RC):

2:46

Stop time (from RC):

3:06

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

hTRIG1 rate

6.79  $\cdot 10^5$

hTRIG5 rate

1660.7

hTRIG3 rate

6623.3

hTRIG6 rate

1270.3

hTRIG4 rate

5293.3

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 20 min

Events 2.4 M  
35.46  
Charge m.C

Active trigger LiveTime fraction (NPS Scaler Gui) 0.0%

Max NPS anode current (single crystal) 4.13 ( $\mu$ A)

**Run Number:**

3155

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

3:09

Stop time (from RC):

3:55

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

hTRIG1 rate

4.35  $\cdot 10^5$

hTRIG5 rate

719.0

hTRIG3 rate

4526.1

hTRIG6 rate

587.4

hTRIG4 rate

3683.7

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 40 min

Events 9.5 M  
56.30  
Charge m.C

Active trigger LiveTime fraction (NPS Scaler Gui) 0.0%

Max NPS anode current (single crystal) 2.90 ( $\mu$ A)

**Run Number:**

3156

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: 0

Start time (from RC):

4:00

Stop time (from RC):

4:23

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

hTRIG1 rate

2.14  $\cdot 10^5$

hTRIG5 rate

900.4

hTRIG3 rate

2317.0

hTRIG6 rate

6718.6

hTRIG4 rate

1815.5

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 20 min

Events 945K  
14.72  
Charge m.C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.947%

Max NPS anode current (single crystal) 1.29 ( $\mu$ A)

**Run Number:**

3157

I<sub>beam</sub>: 36  $\mu$ 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: 2

Start time (from RC):

4:26

Stop time (from RC):

4:42

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

hTRIG1 rate

6.89  $\cdot 10^5$

hTRIG5 rate

927.9

hTRIG3 rate

2339.6

hTRIG6 rate

747.4

hTRIG4 rate

1859.0

Data ok

Junk

coin\_sparse   
rin   
jin\_sparse\_low

Comments: 10 min, went longer due to beam trips

Events 16.78  
Charge m.C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.957%

Max NPS anode current (single crystal) 3.79 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

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

Date: 23 / 11 / 23  
yy mm dd

Initials: *cp*

Use a separate sheet for each configuration.

**Kinematics: KinC x 50-1**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
1.69	mm	0.30 mm
Nomin:		Nomin:
3H07C	X	Y
0.71	mm	0.31 mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

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

θ(TV): \_\_\_\_\_  
Nearest 0.005

θ = SHMS  
-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:

3158

I<sub>beam</sub>: 36 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: -1  
PS6: 0

Start time (from RC):

4:45.9

Stop time (from RC):

5:18

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

hTRIG1 rate

6.96 · 10<sup>5</sup>

hTRIG5 rate

1625.4

hTRIG3 rate

6457

hTRIG6 rate

1199.9

hTRIG4 rate

4755.2

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 15 min

Events *MIM*  
26.87  
Charge *MC*

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.961%

Max NPS anode current (single crystal)  
6.53 (μA)

Run Number:

3159

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: -1  
PS6: 0

Start time (from RC):

5:22

Stop time (from RC):

5:41

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

hTRIG1 rate

3.27 · 10<sup>5</sup>

hTRIG5 rate

378.3

hTRIG3 rate

3290.3

hTRIG6 rate

304.6

hTRIG4 rate

2363.4

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 15 min

Events *300K MIM*  
18.62  
Charge *MC*

Active trigger LiveTime fraction (NPS Scaler Gui)  
100%

Max NPS anode current (single crystal)  
3.46 (μA)

Run Number:

3160

I<sub>beam</sub>: 21 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: -1  
PS6: 0

Start time (from RC):

6:08

Stop time (from RC):

6:39

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

hTRIG1 rate

1.18 · 10<sup>6</sup>

hTRIG5 rate

3955.2

hTRIG3 rate

10024.2

hTRIG6 rate

3040.0

hTRIG4 rate

7692.2

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: IOChic2 issue  
~~lost beam~~ lost beam

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

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.477%

Max NPS anode current (single crystal)  
4.27 (μA)

Run Number:

3161

I<sub>beam</sub>: 21 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: -1  
PS6: 0

Start time (from RC):

7:34

Stop time (from RC):

7:39

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

hTRIG1 rate

hTRIG3 rate

hTRIG5 rate

hTRIG6 rate

hTRIG4 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1st of 4 hr runs  
Killed b/c data rate > 125 kMB/s

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

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)  
(μA)

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

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

Date:     /    /     Initials:     

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other:     

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 8.456 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: 3162  
 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: -1  
 PS5: -1  
 PS6: 0

Start time (from RC): 7:43  
 Stop time (from RC): 8:43

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 9.94.10<sup>5</sup>  
 hTRIG5 rate: 2965.2

hTRIG3 rate: 8582.6  
 hTRIG6 rate: 2261.6

hTRIG4 rate: 6494.3  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 1<sup>st</sup> of 4 1-hr runs

Events 8096k  
~~60.08~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.768

Max NPS anode current (single crystal): 3.55 ( $\mu$ A)

Run Number: 3163  
 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: -1  
 PS5: -1  
 PS6: 0

Start time (from RC): 8:44  
 Stop time (from RC): 9:45

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1660k  
 hTRIG5 rate: 3008.1

hTRIG3 rate: 8710.2  
 hTRIG6 rate: 2285.2

hTRIG4 rate: 6600.3  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 2<sup>nd</sup> of 4 one-hr runs

Events 7794k  
~~58.34~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.797%

Max NPS anode current (single crystal): 3.54 ( $\mu$ A)

Run Number: 3164  
 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: -1  
 PS5: -1  
 PS6: 0

Start time (from RC): 9:46  
 Stop time (from RC): 10:52

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1630k  
 hTRIG5 rate: 2938.4

hTRIG3 rate: 8517  
 hTRIG6 rate: 2227.1

hTRIG4 rate: 6513.9  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 3<sup>rd</sup> of 4 one-hr runs

Events 8262k  
~~62.61~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui): 98.985%

Max NPS anode current (single crystal): 3.69 ( $\mu$ A)

Run Number: 3165  
 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: -1  
 PS5: -1  
 PS6: 0

Start time (from RC): 10:54  
 Stop time (from RC): 11:54

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1620k  
 hTRIG5 rate: 2915.0

hTRIG3 rate: 8601.7  
 hTRIG6 rate: 2229.5

hTRIG4 rate: 6418.7  
 Data ok  
 Junk

coin\_sparse   
 coin   
 in\_sparse\_low

Comments: 4<sup>th</sup> of 4 one-hr runs

Events 7023k  
~~53.10~~  
 Charge mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.736%

Max NPS anode current (single crystal): 3.71 ( $\mu$ A)

# p(e,e') p Run Sheet

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

Date:    /   /     
yy mm dd

Initials: Hao

Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-1

Purpose:

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8.456 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>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS

p: +04.726  $\theta$ (TV): 16.75  
From GUI Nearest 0.005

SHMS

$\theta$ (TV): 35.28  
Nearest 0.005

NPS

$\theta$  = SHMS 18.98  
-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>3166</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>11:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1070k</u>	hTRIG3 rate <u>5700.6</u>	hTRIG4 rate <u>4382.3</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments:		Stop time (from RC): <u>12:20</u>		hTRIG5 rate <u>1305.1</u>	hTRIG6 rate <u>1025.8</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"/>	Events <u>1260k</u> Charge <u>14.32</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.983%</u>	Max NPS anode current (single crystal) <u>2.48</u> ( $\mu$ A)
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Run Number: <u>3167</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>12:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>479k</u>	hTRIG3 rate <u>2891</u>	hTRIG4 rate <u>2213.3</u>
I <sub>beam</sub> : <u>6</u> $\mu$ A	Comments:		Stop time (from RC):		hTRIG5 rate <u>338</u>	hTRIG6 rate <u>270</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"/>	Events <u>336k</u> Charge <u>7.02</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.45</u> ( $\mu$ A)
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Run Number: <u>3168</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>12:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1630k</u>	hTRIG3 rate <u>8580.7</u>	hTRIG4 rate <u>6523.5</u>
I <sub>beam</sub> : <u>18</u> $\mu$ A	Comments:		Stop time (from RC): <u>13:06</u>		hTRIG5 rate <u>2887.9</u>	hTRIG6 rate <u>2225.2</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"/>	Events <u>3435k</u> Charge <u>20.15</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.46</u> ( $\mu$ A)
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Run Number: <u>3169</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1070k</u>	hTRIG3 rate <u>5631.1</u>	hTRIG4 rate <u>4354.1</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A	Comments:		Stop time (from RC): <u>13:33</u>		hTRIG5 rate <u>1304.1</u>	hTRIG6 rate <u>980.5</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"/>	Events <u>5561k</u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.36</u> ( $\mu$ A)
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Comments: PEB1 error after running for 22 min. No end of run entry

Use a separate sheet for each configuration.

Date: 23/11/23  
yy mm dd

Initials: Hao

**Kinematics: KinC x50-1**

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 8.456 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>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.4726  $\theta$ (TV): 16.95  
From GUI Nearest 0.005

$\theta$ (TV): 35.28  
Nearest 0.005

$\theta$  = SHMS 18.98  
-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:**

3170

- 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):

13:53

Stop time (from RC):

14:19

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1080k

hTRIG3 rate

5932

hTRIG4 rate

4316.8

$I_{beam}$ : 12  $\mu$ A

hTRIG5 rate

1316.2

hTRIG6 rate

1033.5

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 6425k  
Charge 16.09 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 2.36  $\mu$ A

**Run Number:**

3171

- 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: 0

Start time (from RC):

14:23

Stop time (from RC):

14:48

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1790k

hTRIG3 rate

2906.9

hTRIG4 rate

2230.8

$I_{beam}$ : 6  $\mu$ A

hTRIG5 rate

1130.8

hTRIG6 rate

867.8

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1161k  
Charge 7.9 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1.21  $\mu$ A

**Run Number:**

3172

- 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: 0

Start time (from RC):

14:53

Stop time (from RC):

14:55

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

$I_{beam}$ : 18  $\mu$ A

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data rate ~ 500 MB/sec with ps6=0

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

**Run Number:**

3173

- 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: 3

Start time (from RC):

14:58

Stop time (from RC):

15:14

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

$I_{beam}$ : 18  $\mu$ A

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data rate is good with ps6=3

Events 362k  
Charge 16.24 mC

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/wik/index.php/File:Runsheets\_dvcs\_NPS.pdf

Date: 23/11/23  
yy mm dd

Initials: Hao

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-1'**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 8.456 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>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0 4.126 From GUI  
θ(TV): 16.75 Nearest 0.005

θ(TV): 33.38 Nearest 0.005

θ = SHMS 17.08  
-16.30° Nearest 0.005

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

Run Number: <u>3174</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>15:33</u> Stop time (from RC): <u>16:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1520k</u>	hTRIG3 rate <u>6780</u>	hTRIG4 rate <u>5438.6</u>
I <sub>beam</sub> : <u>36</u> μA	Comments: <u>1<sup>st</sup> of two 1hr runs.</u>			Events <u>5.1M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.38%</u>	Max NPS anode current (single crystal) <u>5.5</u> (μA)	

Run Number: <u>3175</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: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: <u>0</u>	Start time (from RC): <u>16:37</u> Stop time (from RC): <u>17:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.41x10<sup>6</sup></u>	hTRIG3 rate <u>6622</u>	hTRIG4 rate <u>5204</u>
I <sub>beam</sub> : <u>36</u> μA	Comments: <u>EB failed 2<sup>nd</sup> of two 1hr runs</u>			Events <u>1.2M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>5.39%</u>	Max NPS anode current (single crystal) <u>99.83%</u> (μA)	

Run Number: <u>3176</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: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: <u>0</u>	Start time (from RC): <u>17:32</u> Stop time (from RC): <u>17:45</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.51x10<sup>6</sup></u>	hTRIG3 rate <u>6668</u>	hTRIG4 rate <u>5294</u>
I <sub>beam</sub> : <u>36</u> μA	Comments: <u>compensate the time ↑ 3175 ≠ 1hr</u>			Events <u>1.1M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>5.26%</u>	Max NPS anode current (single crystal) <u>99.96%</u> (μA)	

Run Number: <u>3177</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: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: <u>0</u>	Start time (from RC): <u>17:48</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>1.01x10<sup>6</sup></u>	hTRIG3 rate <u>4517</u>	hTRIG4 rate <u>3511</u>
I <sub>beam</sub> : <u>24</u> μA	Comments: _____			Events <u>912k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.89%</u>	Max NPS anode current (single crystal) <u>3.59</u> (μA)	

Use a separate sheet for each configuration.

Date:    /   /         Initials:    

**Kinematics: KinC\_x** 50=1

$E_{\text{beam}}$ : 8.456 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**  
 $p$ : +/-             $\theta$ (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            NPS Upstream Corr.            NPS Upstream Corr.             
I = 46.9 Amp      I = 0 Amp      I = 0 Amp

Run Number: <u>3178</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>          </u> PS2: <u>          </u> PS3: <u>          </u> PS4: <u>          </u> PS5: <u>          </u> PS6: <u>0</u>	Start time (from RC): <u>18:10</u> Stop 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>4.54x10<sup>5</sup></u> hTRIG5 rate <u>281</u>	hTRIG3 rate <u>2256</u> hTRIG6 rate <u>240</u>	hTRIG4 rate <u>1791</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>12 <math>\mu</math>A</u>	Comments: <u>          </u>			Events <u>2.2k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>1.99 (<math>\mu</math>A)</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3179</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>          </u> PS2: <u>          </u> PS3: <u>2</u> PS4: <u>          </u> PS5: <u>          </u> PS6: <u>          </u>	Start time (from RC): <u>18:34</u> Stop time (from RC): <u>18:54</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.52x10<sup>6</sup></u> hTRIG5 rate <u>2170</u>	hTRIG3 rate <u>6500</u> hTRIG6 rate <u>1721</u>	hTRIG4 rate <u>5226</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>36 <math>\mu</math>A</u>	Comments: <u>          </u>			Events <u>2.5M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>5.32 (<math>\mu</math>A)</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3180</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>          </u> PS2: <u>          </u> PS3: <u>          </u> PS4: <u>0</u> PS5: <u>          </u> PS6: <u>          </u>	Start time (from RC): <u>18:56</u> Stop time (from RC): <u>19:37</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.02x10<sup>6</sup></u> hTRIG5 rate <u>1009</u>	hTRIG3 rate <u>4546</u> hTRIG6 rate <u>821</u>	hTRIG4 rate <u>3567</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>24 <math>\mu</math>A</u>	Comments: <u>          </u>			Events <u>8.3M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>3.52 (<math>\mu</math>A)</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3181</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>          </u> PS2: <u>          </u> PS3: <u>          </u> PS4: <u>          </u> PS5: <u>          </u> PS6: <u>0</u>	Start time (from RC): <u>19:42</u> Stop 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>1.86x10<sup>6</sup></u> hTRIG5 rate <u>900</u>	hTRIG3 rate <u>2274</u> hTRIG6 rate <u>734</u>	hTRIG4 rate <u>1793</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{\text{beam}}$ : <u>12 <math>\mu</math>A</u>	Comments: <u>          </u>			Events <u>1.1M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99%</u>	Max NPS anode current (single crystal) <u>1.76 (<math>\mu</math>A)</u>	
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input checked="" type="checkbox"/>							



Use a separate sheet for each configuration.

Date:    /   /    Initials:    

**Kinematics: KinC\_x 50-11**

$E_{beam}$ :     GeV

← same

Raster:  On  Off  
Size:    

**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**  
 $p$ : +/-      $\theta$ (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  NPS Upstream Corr.  NPS Upstream Corr.   
I =     Amp I =     Amp I =     Amp

<b>Run Number:</b> 3182	<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. <input type="checkbox"/>	PS1: <u>   </u> PS2: <u>   </u> PS3: <u>   </u> PS4: <u>   </u> PS5: <u>   </u> PS6: <u>2</u>	Start time (from RC): 20:12	Stop time (from RC): 20:22	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate	hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>36</u> $\mu A$	Comments:		Events <u>258K</u>	Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )					

coin\_sparse  coin  coin\_sparse\_low

<b>Run Number:</b> 3183	<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. <input type="checkbox"/>	PS1: <u>   </u> PS2: <u>   </u> PS3: <u>   </u> PS4: <u>   </u> PS5: <u>   </u> PS6: <u>0</u>	Start time (from RC): 20:31	Stop time (from RC): 20:50	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.4x10 <sup>6</sup>	hTRIG3 rate 6468	hTRIG4 rate 4600	hTRIG5 rate 2167	hTRIG6 rate 1603	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>36</u> $\mu A$	Comments:		Events <u>1.4M</u>	Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) 99%	Max NPS anode current (single crystal) ( $\mu A$ ) 9.1					

coin\_sparse  coin  coin\_sparse\_low

<b>Run Number:</b> 3184	<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. <input type="checkbox"/>	PS1: <u>   </u> PS2: <u>   </u> PS3: <u>   </u> PS4: <u>   </u> PS5: <u>   </u> PS6: <u>0</u>	Start time (from RC): 20:53	Stop time (from RC): 21:08	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 7.4x10 <sup>5</sup>	hTRIG3 rate 3274	hTRIG4 rate 2329	hTRIG5 rate 545	hTRIG6 rate 402	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>18</u> $\mu A$	Comments:		Events <u>345K</u>	Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) 99%	Max NPS anode current (single crystal) ( $\mu A$ ) 4.69					

coin\_sparse  coin  coin\_sparse\_low

<b>Run Number:</b> 3185	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>   </u> PS2: <u>   </u> PS3: <u>   </u> PS4: <u>   </u> PS5: <u>   </u> PS6: <u>0</u>	Start time (from RC): 21:24	Stop time (from RC): 22:27	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.73x10 <sup>6</sup>	hTRIG3 rate 7133	hTRIG4 rate 5470	hTRIG5 rate 2731	hTRIG6 rate 2080	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>15</u> $\mu A$	Comments:		Events <u>6.75M</u>	Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) 99%	Max NPS anode current (single crystal) ( $\mu A$ ) 4.06					

coin\_sparse  coin  coin\_sparse\_low

**p(e,e'γ) p Run Sheet**

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

Use a separate sheet for each configuration.

Date:   /  /   Initials:   

**Kinematics: KinC\_x** 50-1

**Purpose:**

- Production
- Test
- Optics
- Other:

HMS, field, current OK?

yes  no

E<sub>beam</sub>:            GeV

Raster:  On  Off  
Size:           

← Same

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  Sleeve  NPS Sweep Magnet I =            Amp NPS Upstream Corr. I =            Amp NPS Upstream Corr. I =            Amp

Run Number: <b>3186</b>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>          </u> PS5: <u>          </u> PS6: <u>0</u>	Start time (from RC): <b>22:30</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <b>1.8x10<sup>6</sup></b>	hTRIG3 rate <b>7144</b>	hTRIG4 rate <b>5449</b>
I <sub>beam</sub> : <b>15 μA</b>	Stop time (from RC): <b>23:34</b>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <b>2754</b>	hTRIG6 rate <b>2050</b>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <b>2nd</b>	Events <b>7.6M</b> Charge <u>          </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <b>99</b>	Max NPS anode current (single crystal) <b>3186 (μA)</b>
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Run Number: <b>3187</b>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>          </u> PS5: <u>          </u> PS6: <u>0</u>	Start time (from RC): <b>23:35</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <b>1.8x10<sup>6</sup></b>	hTRIG3 rate <b>7319</b>	hTRIG4 rate <b>5453</b>
I <sub>beam</sub> : <b>15 μA</b>	Stop time (from RC): <b>00:35</b>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <b>2808</b>	hTRIG6 rate <b>2162</b>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <b>3rd.</b>	Events <b>6.8M</b> <b>46.28</b> Charge <u>          </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <b>3.93</b>	Max NPS anode current (single crystal) <b>99% (μA)</b>
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Run Number: <b>3188</b>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>          </u> PS5: <u>          </u> PS6: <u>0</u>	Start time (from RC): <b>3:02</b>	<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> : <b>15 μA</b>	Stop time (from RC): <b>3:07</b>			<input checked="" 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: <b>testing collimator position 4th</b>	Events <b>90K</b> <b>1.51</b> Charge <u>          </u> M C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <b>(μA)</b>
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Run Number: <b>3189</b>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <b>4:27</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <b>1.28·10<sup>6</sup></b>	hTRIG3 rate <b>7211.1</b>	hTRIG4 rate <b>5442.3</b>
I <sub>beam</sub> : <b>15 μA</b>	Stop time (from RC): <b>5:28</b>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <b>2820.8</b>	hTRIG6 rate <b>2147.1</b>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <b>4th of the 1-hr runs</b>	Events <b>7.3M</b> <b>45.74</b> Charge <u>          </u> M C	Active trigger LiveTime fraction (NPS Scaler Gui) <b>99.769%</b>	Max NPS anode current (single crystal) <b>3.86 (μA)</b>
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Use a separate sheet for each configuration.

Date: 13/11/24 Initials:

Kinematics: KinC\_x 50-1'

E<sub>beam</sub>: 8.456 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: +/- \_\_\_\_\_ θ(TV): \_\_\_\_\_  
From GUI Nearest 0.005

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

NPS  
θ = SHMS  
-16.30° Nearest 0.005

3H07A	X	Y
1.70 mm		0.308 mm
Nomin:		Nomin:
3H07C	X	Y
0.70 mm		1.30 mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 468 Amp  
NPS Upstream Corr. I = off Amp  
NPS Upstream Corr. I = 4 Amp

Run Number: 3190 I <sub>beam</sub> : 10 μA	<input type="checkbox"/> LH2 10cm <input checked="" type="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: -1 PS5: -1 PS6: 0	Start time (from RC): 5:32 Stop time (from RC): 6:01	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 8.09 · 10 <sup>5</sup> hTRIG5 rate: 1294.6	hTRIG3 rate: 4774.1 hTRIG6 rate: 985.9	hTRIG4 rate: 3650.1 <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: ~20 MIN		Events: 1.2M Charge: 11.42 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 99.9%	Max NPS anode current (single crystal): 2.82 (μA)		

Run Number: 3191 I <sub>beam</sub> : 5 μA	<input type="checkbox"/> LH2 10cm <input checked="" type="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: -1 PS5: -1 PS6: 0	Start time (from RC): 6:06 Stop time (from RC): 6:29	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 4.09 · 10 <sup>5</sup> hTRIG5 rate: 363.1	hTRIG3 rate: 2480.9 hTRIG6 rate: 294.4	hTRIG4 rate: 1864.9 <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: ~20 min		Events: 1.2M Charge: 6.10 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 100.0%	Max NPS anode current (single crystal): 1.43 (μA)		

Run Number: 3192 I <sub>beam</sub> : 15 μA	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 2 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 6:34 Stop time (from RC): 6:54	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.26 · 10 <sup>6</sup> hTRIG5 rate: 2810.1	hTRIG3 rate: 7138.8 hTRIG6 rate: 2138.7	hTRIG4 rate: 5391.4 <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: ~20 min		Events: 2.8M Charge: 16.40 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 0.0%	Max NPS anode current (single crystal): 4.05 (μA)		

Run Number: 3193 I <sub>beam</sub> : 10 μA	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 7:02 Stop time (from RC): 7:42	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 7.90 · 10 <sup>5</sup> hTRIG5 rate: 1332.0	hTRIG3 rate: 4785.4 hTRIG6 rate: 1011.8	hTRIG4 rate: 3670.1 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: 40 min		Events: 8.5M Charge: 22.10 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 0.0%	Max NPS anode current (single crystal): 2.55 (μA)		

Use a separate sheet for each configuration.

Kinematics: KinC\_x50-1'

E<sub>beam</sub>: 8.4545 GeV

Raster: [X] On [ ] Off  
Size: 2x2

Purpose:

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

HMS, field, current OK?  
yes [X] no [ ]

Beam position and angle on target:

3H07A	X	Y
1.69 mm		0.30 mm
NomIn:		NomIn:
3H07C	X	Y
0.70 mm		0.30 mm
NomIn:		NomIn:

HMS  
p: +/- \_\_\_\_\_ θ(TV): 16.750  
From GUI Nearest 0.005

SHMS  
θ(TV): 33.380  
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: 3194  
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: -1  
PS5: -1  
PS6: 0

Start time (from RC): 7:46  
Stop time (from RC): 08:08:27

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 4.07 · 10<sup>5</sup>  
hTRIG3 rate: 2411.9  
hTRIG4 rate: 1885.3  
hTRIG5 rate: 984.8  
hTRIG6 rate: 750.9

Data ok  
 Junk

coin\_sparse [ ]  
coin [ ]  
coin\_sparse\_low [X]

Comments: 20 min

Events: 963106  
Charge: 34 mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.951 %

Max NPS anode current (single crystal): 1.37 (μA)

Run Number: 3195  
I<sub>beam</sub>: 15 μA

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

PS1: -  
PS2: -  
PS3: -  
PS4: -  
PS5: -  
PS6: 3

Start time (from RC): 08:16:20  
Stop time (from RC): 08:27:00

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.61e6  
hTRIG3 rate: 7141  
hTRIG4 rate: 5418  
hTRIG5 rate: 2437  
hTRIG6 rate: 1873

Data ok  
 Junk

coin\_sparse [ ]  
coin [X]  
coin\_sparse\_low [ ]

Comments: 10 min

Events: 23592  
Charge: 8.93 mC

Active trigger LiveTime fraction (NPS Scaler Gui): 3.88 μA

Max NPS anode current (single crystal): 100% (μA)

Run Number: 3196  
I<sub>beam</sub>: 36 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -  
PS2: -  
PS3: -  
PS4: -  
PS5: -  
PS6: 0

Start time (from RC): 08:39:49  
Stop time (from RC): 09:43:54

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.11e6  
hTRIG3 rate: 6838  
hTRIG4 rate: 5409  
hTRIG5 rate: 1667  
hTRIG6 rate: 1354

Data ok  
 Junk

coin\_sparse [X]  
coin [ ]  
coin\_sparse\_low [ ]

Comments: 1h SHMS = 35.28  
KinC - x50-1

Events: 4242611  
Charge: 115.25 mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.928%

Max NPS anode current (single crystal): 4.09 (μA)

Run Number: 3197  
I<sub>beam</sub>: 36 μA

LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.l

PS1: -  
PS2: -  
PS3: -  
PS4: -  
PS5: -  
PS6: 0

Start time (from RC): 09:45:19  
Stop time (from RC): ~09:50

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.09e6  
hTRIG3 rate: 6703  
hTRIG4 rate: 5301  
hTRIG5 rate: 1593  
hTRIG6 rate: 1283

Data ok  
 Junk

coin\_sparse [X]  
coin [ ]  
coin\_sparse\_low [ ]

Comments: 5 min # KinC - x50-1  
SHMS = 35.28

Events: 290025  
Charge: X C

Active trigger LiveTime fraction (NPS Scaler Gui): 3.75 95.898%

Max NPS anode current (single crystal): 3.75 (μA)

CODA Problem

Use a separate sheet for each configuration.

Date: 23/11/24  
yy mm dd

Initials: YZ

**Kinematics: KinC\_x 50-1**

E<sub>beam</sub>: 8.455 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 4.726 θ(TV): 16.755  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 35.275  
Nearest 0.005

**NPS**  
θ = SHMS 18.975  
-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 = 467.93 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>3198</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: - PS5: - PS6: <u>0</u>	Start time (from RC): <u>09:53:50</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.09e6</u>	hTRIG3 rate <u>6765</u>	hTRIG4 rate <u>5362</u>
I <sub>beam</sub> : <u>36</u> μA			Stop time (from RC): <u>10:57</u>		hTRIG5 rate <u>1623</u>	hTRIG6 rate <u>1323</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>1h</u>	Events <u>430369</u> Charge <u>116.36</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.868%</u>	Max NPS anode current (single crystal) <u>4.27</u> (μA)			

Run Number: <u>3199</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: - PS5: - PS6: <u>0</u>	Start time (from RC): <u>11:01:58</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>6.98e5</u>	hTRIG3 rate <u>4530</u>	hTRIG4 rate <u>3573</u>
I <sub>beam</sub> : <u>24</u> μA			Stop time (from RC): <u>11:24:25</u>		hTRIG5 rate <u>699</u>	hTRIG6 rate <u>578</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>20 min</u>	Events <u>651373</u> Charge <u>25.85</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.934%</u>	Max NPS anode current (single crystal) <u>2.89</u> (μA)			

Run Number: <u>3200</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: - PS5: - PS6: <u>0</u>	Start time (from RC): <u>11:27:31</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>3.05e5</u>	hTRIG3 rate <u>2257</u>	hTRIG4 rate <u>1805</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>11:48:31</u>		hTRIG5 rate <u>209</u>	hTRIG6 rate <u>177</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>20 min</u>	Events <u>225493</u> Charge <u>14.34</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.14</u> (μA)			

Run Number: <u>3201</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: <u>2</u> PS4: - PS5: - PS6: -	Start time (from RC): <u>11:52:03</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>8.51e5</u>	hTRIG3 rate <u>6772</u>	hTRIG4 rate <u>5373</u>
I <sub>beam</sub> : <u>36</u> μA			Stop time (from RC): <u>12:13:54</u>		hTRIG5 rate <u>1536</u>	hTRIG6 rate <u>1234</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>20 min</u>	Events <u>2754e9</u> Charge <u>41.15</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.21</u> (μA)			

Use a separate sheet for each configuration.

Date: 23/11/24  
yy mm dd

Initials: YZ

Kinematics: KinC\_x 50-1

E<sub>beam</sub>: 8.455 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: +10 4.720 From GUI θ(TV): 16.755 Nearest 0.005

SHMS  
θ(TV): 35.275 Nearest 0.005

NPS  
θ = SHMS 18.975 Nearest 0.005  
-16.30°

3H07A	X	Y
1.7 mm	0.3 mm	
Nomin:		Nomin:
3H07C	X	Y
0.7 mm	0.3 mm	
Nomin:		Nomin:

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 167.93 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 3202	<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: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): 12:17:01 Stop time (from RC): 12:58:21	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 7.0e5 hTRIG5 rate: 726	hTRIG3 rate: 4616 hTRIG6 rate: 595	hTRIG4 rate: 3670 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 24 μA	Comments: 40min		Events: 245703 Charge: 53.24 mC	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): 2.86 (μA)		

Run Number: 3203	<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: - PS2: - PS3: - PS4: - PS5: - PS6: 0	Start time (from RC): 13:01:52 Stop time (from RC): 13:22:34	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.76e6 hTRIG5 rate: 893	hTRIG3 rate: 2263 hTRIG6 rate: 732	hTRIG4 rate: 1793 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 12 μA	Comments: 20min		Events: 866835 Charge: 13.52 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 1.31 (μA)		

Run Number: 3204	<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: - PS2: - PS3: - PS4: - PS5: - PS6: 2	Start time (from RC): 13:26:02 Stop time (from RC): 13:36:39	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 8.99e5 hTRIG5 rate: 1336	hTRIG3 rate: 6790 hTRIG6 rate: 1076	hTRIG4 rate: 5384 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 36 μA	Comments: 10min		Events: 227816 Charge: 20.65 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 97.933%	Max NPS anode current (single crystal): 3.81 (μA)		

Run Number: 3205	<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: - PS2: - PS3: - PS4: - PS5: - PS6: 0	Start time (from RC): 13:45:46 Stop time (from RC): 14:01:47	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.14e6 hTRIG5 rate: 1517	hTRIG3 rate: 6569 hTRIG6 rate: 1140	hTRIG4 rate: 4769 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 36 μA	Comments: 15min		Events: 983404 Charge: 29.90 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 99.910%	Max NPS anode current (single crystal): 6.59 (μA)		

Use a separate sheet for each configuration.

Date: 23/11/24  
yy mm dd

Initials: YZ

Kinematics: KinC\_x 50-1

E<sub>beam</sub>: 8.455 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
1.7	mm	0.3
NomIn:		NomIn:
3H07C	X	Y
0.7	mm	0.3
NomIn:		NomIn:

HMS  
p: +0 4.720 θ(TV): 16.755  
From GUI Nearest 0.005

SHMS  
θ(TV): 35.275  
Nearest 0.005

NPS  
θ = SHMS 18.975  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 46.93 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: 3206	<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: - PS2: - PS3: - PS4: - PS5: - PS6: 0	Start time (from RC): 14:04:04 Stop time (from RC): 14:20:42	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 4.75e5 hTRIG5 rate: 392	hTRIG3 rate: 3255 hTRIG6 rate: 304	hTRIG4 rate: 2386 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 18 μA	Comments: 15 min		Events: 274392 Charge: 16.39 C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.943%	Max NPS anode current (single crystal): 3.48 (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 3207	<input type="checkbox"/> LH2 10cm <input 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: - PS5: - PS6: 0	Start time (from RC): 14:41:41 Stop time (from RC): 15:45:16	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.61e6 hTRIG5 rate: 2907	hTRIG3 rate: 8533 hTRIG6 rate: 2225	hTRIG4 rate: 6513 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 18 μA	Comments: 1 hour		Events: 770897 Charge: 59.72 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 99.785%	Max NPS anode current (single crystal): 3.37 (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 3208	<input type="checkbox"/> LH2 10cm <input 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: - PS5: - PS6: 0	Start time (from RC): 15:46:53 Stop time (from RC): 1649	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.6e6 hTRIG5 rate: 2900	hTRIG3 rate: 8559 hTRIG6 rate: 2228	hTRIG4 rate: 6484 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 18 μA	Comments: 1 hour		Events: 770826 Charge: 60.22 C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.820%	Max NPS anode current (single crystal): 3.13 (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 3209	<input type="checkbox"/> LH2 10cm <input 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: -1 PS5: -1 PS6: 0	Start time (from RC): 1651 Stop time (from RC): 1758	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.59e+06 hTRIG5 rate: 2842	hTRIG3 rate: 8464 hTRIG6 rate: 2217	hTRIG4 rate: 6379 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 18 μA	Comments: 1 hour		Events: 7730469 Charge: 60.60 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 99.627%	Max NPS anode current (single crystal): 3.54 (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Use a separate sheet for each configuration.

Date: 11/24/23 Initials: \_\_\_\_\_

**Kinematics: KinC\_x 50 - 1**

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 8.456 GeV

Raster:  On  Off  
 Size: 2 x 2

Beam position and angle on target:

**HMS**  
 p: +/- \_\_\_\_\_ θ(TV): 16.75  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 35.28  
Nearest 0.005

**NPS**  
 θ = SHMS  
-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 = \_\_\_\_\_ Amp  
 NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: 3210  
 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: -1  
 PS6: 0

Start time (from RC): 1800  
 Stop time (from RC): 1902

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.59e+06  
 hTRIG5 rate: 2821

hTRIG3 rate: 8583  
 hTRIG6 rate: 2198

hTRIG4 rate: 6517  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 1 hour

Events 7919091  
 Charge 6.11 μC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.771

Max NPS anode current (single crystal): 3.06 (μA)

Run Number: 3211  
 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: -1  
 PS6: 0

Start time (from RC): 1904  
 Stop time (from RC): \_\_\_\_\_

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.60e+06  
 hTRIG5 rate: 2870

hTRIG3 rate: 8639  
 hTRIG6 rate: 2190

hTRIG4 rate: 6459  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 1 hr. PE B1 error around 30 min.

Events \_\_\_\_\_  
 Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.708%

Max NPS anode current (single crystal): 3.05 (μA)

Run Number: 3212  
 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: -1  
 PS6: 0

Start time (from RC): 1944  
 Stop time (from RC): 2024

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.6e+06  
 hTRIG5 rate: 2881

hTRIG3 rate: 8600  
 hTRIG6 rate: 2182

hTRIG4 rate: 6450  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 30 min (cont. the last run)

Events 34.83  
 Charge MC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.8

Max NPS anode current (single crystal): 3.20 (μA)

Run Number: 3213  
 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: -1  
 PS5: -1  
 PS6: 0

Start time (from RC): 2026  
 Stop time (from RC): 20:49

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.06e+06  
 hTRIG5 rate: 1283

hTRIG3 rate: 5874  
 hTRIG6 rate: 994.8

hTRIG4 rate: 4367  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 20 min

Events 130  
 Charge 5MC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.89%

Max NPS anode current (single crystal): 2.24 (μA)



Use a separate sheet for each configuration.

Kinematics: KinC\_x 50-1

E<sub>beam</sub>: 8.454 GeV

Raster:  On  Off  
Size: 2x2 m<sup>2</sup>

Purpose:  
 Production  
 Test  
 Optics  
 Other: \_\_\_\_\_

HMS, field, current OK?  
yes  no

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: +0.476 From GUI  
θ(TV): 6.75 Nearest 0.005

SHMS  
θ(TV): 35.28 Nearest 0.005

NPS  
θ = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 400 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: 3214	<input type="checkbox"/> LH2 10cm <input 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: PS5: PS6:	Start time (from RC): 20:51 Stop time (from RC): 21:11	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 4.7 x 10 <sup>5</sup> Hz hTRIG5 rate: 350 Hz	hTRIG3 rate: 2900 Hz hTRIG6 rate: 281 Hz	hTRIG4 rate: 2.2 kHz	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 6 μA	Comments:			Events: _____ Charge: _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 1.25 (μA)		

Run Number: 3215	<input type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: 2 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 21:15 Stop time (from RC): 21:38	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.54e+06 hTRIG5 rate: 2832	hTRIG3 rate: 8517 hTRIG6 rate: 2191	hTRIG4 rate: 6508	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 18 μA	Comments:			Events: 34,91833 Charge: 26.97 mC	Active trigger LiveTime fraction (NPS Scaler Gui): <del>94.44%</del>	Max NPS anode current (single crystal): 5.52 (μA)		

Run Number: 3217	<input type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 21:46 Stop time (from RC): 22:28	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.05e+06 hTRIG5 rate: 1273	hTRIG3 rate: 5702 hTRIG6 rate: 999	hTRIG4 rate: 4317	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 12 μA	Comments:			Events: 10,094,733 Charge: 26.29 mC	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal): 2.17 (μA)		

Run Number: 3218	<input type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 22:32 Stop time (from RC): 22:53	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.79e+06 hTRIG5 rate: 1105	hTRIG3 rate: 2863 hTRIG6 rate: 862	hTRIG4 rate: 2187	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 6 μA	Comments:			Events: 104,2264 Charge: 7.16 mC	Active trigger LiveTime fraction (NPS Scaler Gui): 99.957	Max NPS anode current (single crystal): 111.25 (μA)		

Use a separate sheet for each configuration.

Date: 11/24/23 Initials: \_\_\_\_\_  
 yy mm dd

**Kinematics: KinC\_x50-1**

$E_{beam}$ : 8.455 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
1.7 mm		0.3 mm
NomIn:		NomIn:
3H07C	X	Y
0.7 mm		0.3 mm
NomIn:		NomIn:

HMS  $-4.7260$   
 $p$ : +/- ~~4.7260~~  $\theta$ (TV): 16.75  
 From GUI Nearest 0.005

SHMS  $\theta$ (TV): 35.28  
 Nearest 0.005

NPS  $\theta$  = SHMS 18.98  
 $-16.30^\circ$  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: 3219	<input type="checkbox"/> LH2 10cm <input checked="" type="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: -1 PS5: -1 PS6: 3	Start time (from RC): 2:30:01 Stop time (from RC): 2:31:22	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
$I_{beam}$ : 18 $\mu$ A	Comments:			Events: 22,511 Charge: 10.3C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	
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: 3220	<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: -1 PS5: -1 PS6: 0	Start time (from RC): 2:33:31 Stop time (from RC): 00:31	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.54e+06 hTRIG3 rate: 6657 hTRIG4 rate: 5299 hTRIG5 rate: 2290 hTRIG6 rate: 1782	CEH	
$I_{beam}$ : 36 $\mu$ A	Comments: 1 hr. LH2. SHMS KinC-x50-1 / 33.380			Events: 59M Charge: 113C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.74%	Max NPS anode current (single crystal) ( $\mu$ A): 5.29	
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: 3221	<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: -1 PS5: -1 PS6: 0	Start time (from RC): 00:32:50 Stop time (from RC): 01:37:54	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.53e6 hTRIG3 rate: 6697 hTRIG4 rate: 5284 hTRIG5 rate: 2071.4 hTRIG6 rate: 1762		
$I_{beam}$ : 36 $\mu$ A	Comments: prescale gui seems frozen			Events: 61M Charge: 122C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.8%	Max NPS anode current (single crystal) ( $\mu$ A): 5	
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: 3220 2	<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: -1 PS5: -1 PS6: 0	Start time (from RC): 01:40:35 Stop time (from RC): 02:08:29	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.0e6 hTRIG3 rate: 4551 hTRIG4 rate: 3673 hTRIG5 rate: 100 hTRIG6 rate: 830		
$I_{beam}$ : 24 $\mu$ A	Comments: Restarted gv-prescale-coin ~1000 ppm charge asymmetry			Events: 112M Charge: 35mC	Active trigger LiveTime fraction (NPS Scaler Gui): 99.98%	Max NPS anode current (single crystal) ( $\mu$ A): 3.5	
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	

Use a separate sheet for each configuration.

Kinematics: KinC x 50-1

E<sub>beam</sub> 8454 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: +/- 4.7260 θ(TV): 16.76  
From GUI Nearest 0.005

SHMS  
θ(TV): 33.38  
Nearest 0.005

NPS  
θ = SHMS -16.30°  
Nearest 0.005

3H07A	X	Y
1.7	mm	0.31
Nomin:		Nomin:
3H07C	X	Y
0.69	mm	0.30
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: 3223	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: 0	Start time (from RC): 02:11 Stop time (from RC): 02:31	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 4.6e5 hTRIG5 rate: 294	hTRIG3 rate: 2310 hTRIG6 rate: 236	hTRIG4 rate: 1885 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 12 μA	Comments:		Events: 250K Charge: 13.6 mC	Active trigger fraction (NPS Scaler Gui): 100%	LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): 1.7 (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 3224	<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: -1 PS2: -1 PS3: 2 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 02:34 Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.55e6 hTRIG5 rate: 2155	hTRIG3 rate: 6798 hTRIG6 rate: 1782	hTRIG4 rate: 5375 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 36 μA	Comments: 50k mostly beam off?		Events: 29M Charge: 43.6 mC	Active trigger fraction (NPS Scaler Gui):	LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): 5.2 (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 3225	<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: -1 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): 02:59 Stop time (from RC): 03:50	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.0e6 hTRIG5 rate: 1029	hTRIG3 rate: 4589 hTRIG6 rate: 820.5	hTRIG4 rate: 3618 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 24 μA	Comments: DATA RATE 80 MBy/sec		Events: 9.5M Charge: C	Active trigger fraction (NPS Scaler Gui):	LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): 3.6 (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: 3226	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: 0 PS6: 0	Start time (from RC): 03:57 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: 1.86e6 hTRIG5 rate: 940	hTRIG3 rate: 2188 hTRIG6 rate: 781	hTRIG4 rate: 1880 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 12 μA	Comments:		Events: 1M Charge: 15 mC	Active trigger fraction (NPS Scaler Gui): 99.9%	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 checked="" type="checkbox"/>							

Use a separate sheet for each configuration.

Date: 23, 11, 25  
yy mm dd Initials: CEM

Kinematics: KinC\_x 90-1

E<sub>beam</sub>: 8.454 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: +/- 4.7260  $\theta$ (TV): 16.755  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 33.38  
Nearest 0.005

NPS  
 $\theta$  = SHMS  
-16.30° Nearest 0.005

3H07A	X	Y
1.7 mm	0.29 mm	
Nomin:		
3H07C	X	Y
0.17 mm	0.130 mm	
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: 3227	<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: -1 PS5: -1 PS6: 2	Start time (from RC): 04:30 Stop time (from RC): 04:42	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 133e6 hTRIG5 rate: 1936	hTRIG3 rate: 6601 hTRIG6 rate: 1523	hTRIG4 rate: 5434 <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: Event Rate 500 Hz data Node 125 MBy/sec	Events 306 Charge 21 C	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 9 $\mu$ A
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Run Number: 3228	<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: -1 PS5: -1 PS6: 2	Start time (from RC): 04:48 Stop time (from RC): 04:46	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.3e6 hTRIG5 rate: 1916	hTRIG3 rate: 6772 hTRIG6 rate: 1905	hTRIG4 rate: 5400 <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: Reloaded Pedestal 610-3	Events 56K Charge 3.7 C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) 9 $\mu$ A
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Run Number: 3229	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 04:59 Stop time (from RC): 05:20	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.5e6 hTRIG5 rate: 2139	hTRIG3 rate: 6578 hTRIG6 rate: 1597	hTRIG4 rate: 4845 <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: DATABATE 60 MBy/sec	Events 16M Charge 36 C	Active trigger LiveTime fraction (NPS Scaler Gui) 99.9	Max NPS anode current (single crystal) 8.6 $\mu$ A
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Run Number: 3230	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 05:27 Stop time (from RC): 05:42	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 7.1e5 hTRIG5 rate: 520	hTRIG3 rate: 3271 hTRIG6 rate: 408	hTRIG4 rate: 2418 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Comments: prescale gui won't load Reset coin then go - prescale - coin	Events 35K Charge 15 C	Active trigger LiveTime fraction (NPS Scaler Gui) 99.9%	Max NPS anode current (single crystal) 4.5 $\mu$ A
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Run 3227 pedestals = 0 in coin for column 0-3

Use a separate sheet for each configuration.

Date: 23/11/25 Initials: CEY

Kinematics: KinC\_x50\_1

E<sub>beam</sub>: 8.454 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: +/- 4.7260 θ(TV): 16.755  
From GUI Nearest 0.005

SHMS  
θ(TV): 33.38  
Nearest 0.005

NPS  
θ = SHMS  
-16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 908 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 3231	<input type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 05:54 Stop time (from RC): 07:05	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 18e6 hTRIG5 rate: 2710	hTRIG3 rate: 7161 hTRIG6 rate: 2084	hTRIG4 rate: 5441 <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: First of 5 DATA RATE 50MB/sec	Events 76M Charge 52C	Active trigger LiveTime fraction (NPS Scaler Gui) 99.8%	Max NPS anode current (single crystal) 3.7 (μA)
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Run Number: 3232	<input type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 07:07 Stop time (from RC): 08:10	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.7e6 hTRIG5 rate: 2726	hTRIG3 rate: 7208 hTRIG6 rate: 2118	hTRIG4 rate: 5361 <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: NPS J1 = 1.2e6 Event Rate 2K/sec NPS-J6 1.3e6	Events 7091k Charge 48mC	Active trigger LiveTime fraction (NPS Scaler Gui) 99.78%	Max NPS anode current (single crystal) 3.5 (μA)
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Run Number: 3233	<input type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 08:11 Stop time (from RC): 09:11	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.76e6 hTRIG5 rate: 2748.8	hTRIG3 rate: 7179.5 hTRIG6 rate: 2039.2	hTRIG4 rate: 5477.6 <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: LD2, 15 μA, 3/5 runs	Events 7468k Charge 51mC	Active trigger LiveTime fraction (NPS Scaler Gui) 99.714%	Max NPS anode current (single crystal) 3.47 (μA)
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Run Number: 3234	<input type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 9:12 Stop time (from RC): 10:13	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.8e6 hTRIG5 rate: 2895.1	hTRIG3 rate: 7507.4 hTRIG6 rate: 2158.1	hTRIG4 rate: 5631.3 <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: 15 μA, 4/5 runs	Events 721k Charge 49mC	Active trigger LiveTime fraction (NPS Scaler Gui) 99.782%	Max NPS anode current (single crystal) 3.42 (μA)
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Use a separate sheet for each configuration.

Kinematics: KinC\_x50-1'

E<sub>beam</sub>: 8.455 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
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

HMS  
p: +04.726  $\theta$ (TV): 14.755  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 33.38  
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>3235</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>10:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.79e6</u>	hTRIG3 rate <u>7415.4</u>	hTRIG4 rate <u>5591.4</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A	Stop time (from RC): <u>11:18</u>		<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2844.0</u>	hTRIG6 rate <u>2152.5</u>		

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 15  $\mu$ A, 5/5 runs @

Events 7127k Active trigger LiveTime fraction (NPS Scaler Gui) 99.769 Max NPS anode current (single crystal) 3.82 ( $\mu$ A)

Charge 49mC

Run Number: <u>3236</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>11:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>121e6</u>	hTRIG3 rate <u>4845.4</u>	hTRIG4 rate <u>3675.6</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A	Stop time (from RC): <u>11:40</u>		<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1259.3</u>	hTRIG6 rate <u>977.3</u>		

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1151k Active trigger LiveTime fraction (NPS Scaler Gui) 99.95 Max NPS anode current (single crystal) 2.27 ( $\mu$ A)

Charge 11mC

Run Number: <u>3237</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>11:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.7e5</u>	hTRIG3 rate <u>2451</u>	hTRIG4 rate <u>1812.4</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A	Stop time (from RC): <u>12:03</u>		<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>344.9</u>	hTRIG6 rate <u>202.7</u>		

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 339k Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 1.05 ( $\mu$ A)

Charge 6mC

Run Number: <u>3238</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>12:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.77e6</u>	hTRIG3 rate <u>7219.6</u>	hTRIG4 rate <u>5457.9</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A	Stop time (from RC): <u>12:37</u>		<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2741.6</u>	hTRIG6 rate <u>2040.6</u>		

coin\_sparse   
coin   
coin\_sparse\_low

Comments: FSD tripped after running for 10 min. will take another run after the beam back.

Events 1520k Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) 3.81 ( $\mu$ A)

Charge 8.8mC

Use a separate sheet for each configuration.

Date: 28 / 11 / 25  
yy mm dd

Initials: MM

**Kinematics: KinC<sub>x</sub> 50-1'**

E<sub>beam</sub>: 6.456 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>1.7</u> mm	<u>0.3</u> mm	
Nomin: <u>1.7</u>	Nomin: <u>0.3</u>	
3H07C	X	Y
<u>0.7</u> mm	<u>0.3</u> mm	
Nomin: <u>0.7</u>	Nomin: <u>0.3</u>	

**HMS**  
p: +0 4.726  $\theta$ (TV): 16.755  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.38  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.68  
-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>3239</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	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>20:38:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8</u> Mhz	hTRIG3 rate <u>7.0</u> kHz	hTRIG4 rate <u>5.5</u> kHz
I <sub>beam</sub> : <u>15</u> $\mu$ A	Stop time (from RC): <u>21:02:21</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2.8</u> kHz	hTRIG6 rate <u>2.2</u> kHz	

coin\_sparse  coin  coin\_sparse\_low   
Comments: ~20 min  
Events 2.76M Active trigger LiveTime fraction (NPS Scaler Gui) N/A (ps3 trigger)  
Charge 6.32nC Max NPS anode current (single crystal) 3.85 ( $\mu$ A)

Run Number: <u>3240</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:05:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3</u> Mhz	hTRIG3 rate <u>4.9</u> kHz	hTRIG4 rate <u>3.8</u> kHz
I <sub>beam</sub> : <u>10</u> $\mu$ A	Stop time (from RC): <u>21:49:59</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1.4</u> kHz	hTRIG6 rate <u>1.0</u> kHz	

coin\_sparse  coin  coin\_sparse\_low   
Comments: ~40 min  
Events 9.06M Active trigger LiveTime fraction (NPS Scaler Gui) N/A (ps4 trigger)  
Charge 2.95nC Max NPS anode current (single crystal) 2.71 ( $\mu$ A)

Run Number: <u>3241</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>21:55:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8</u> Mhz	hTRIG3 rate <u>2.4</u> kHz	hTRIG4 rate <u>1.9</u> kHz
I <sub>beam</sub> : <u>5</u> $\mu$ A	Stop time (from RC): <u>22:16:03</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>950</u> Hz	hTRIG6 rate <u>750</u> Hz	

coin\_sparse  coin  coin\_sparse\_low   
Comments: ~20 min  
Events 939 k Active trigger LiveTime fraction (NPS Scaler Gui) 99.90%  
Charge 6.17nC Max NPS anode current (single crystal) 1.3 ( $\mu$ A)

Run Number: <u>3242</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>22:19:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.6</u> Mhz	hTRIG3 rate <u>7.3</u> kHz	hTRIG4 rate <u>5.6</u> kHz
I <sub>beam</sub> : <u>15</u> $\mu$ A	Stop time (from RC): <u>22:34:10</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>2.4</u> kHz	hTRIG6 rate <u>1.9</u> kHz	

coin\_sparse  coin  coin\_sparse\_low   
Comments: ~10 min  
Events 159k Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Charge 0.00nC Max NPS anode current (single crystal) 4.1 ( $\mu$ A)

Use a separate sheet for each configuration.

Date: 23/11/25-26 Initials: MM

DU

Kinematics: KinC x ~~50-1~~  
50-1

$E_{beam}$ : 8.456 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
1.7	mm	0.3
NomIn: 1.7		NomIn: 0.3
3H07C	X	Y
0.7	mm	0.3
NomIn: 0.7		NomIn: 0.3

HMS  
 $p$ : +0.4726  $\theta$ (TV): 16.755  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 35.28  
Nearest 0.005

NPS  
 $\theta$  = SHMS 18.98  
-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>3243</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>0</u>	Start time (from RC): <u>23:02:27</u> Stop time (from RC): <u>00:12:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.1 MHz</u> hTRIG5 rate: <u>1.6 kHz</u>	hTRIG3 rate: <u>6.7 kHz</u> hTRIG6 rate: <u>1.3 kHz</u>	hTRIG4 rate: <u>5.4 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>36</u> $\mu$ A	Comments: <u>~60 min + for trips</u>			Events: <u>119 MC</u> Charge: <u>119 MC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.97%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>4.07</u>	

Run Number: <u>3244</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>0</u>	Start time (from RC): <u>00:13</u> Stop time (from RC): <u>01:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.1 MHz</u> hTRIG5 rate: <u>1.6 kHz</u>	hTRIG3 rate: <u>6.7 kHz</u> hTRIG6 rate: <u>1.3 kHz</u>	hTRIG4 rate: <u>5.3 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>36</u> $\mu$ A	Comments: <u>~60 min + for trips</u>			Events: <u>4.2 M</u> Charge: <u>119 MC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.91%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>4.14</u>	

Run Number: <u>3245</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>0</u>	Start time (from RC): <u>01:</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 checked="" type="checkbox"/> Junk
$I_{beam}$ : _____ $\mu$ A	Comments: <u>~20 min junk</u>			Events: _____ Charge: _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal) ( $\mu$ A): _____	

Run Number: <u>3246</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>0</u>	Start time (from RC): <u>01:23</u> Stop time (from RC): <u>01:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>.5 MHz</u> hTRIG5 rate: <u>690 Hz</u>	hTRIG3 rate: <u>4.5 kHz</u> hTRIG6 rate: <u>570 Hz</u>	hTRIG4 rate: <u>3.6 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>24</u> $\mu$ A	Comments: <u>~20 min +</u>			Events: <u>767 M</u> Charge: <u>31 MC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.8%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>2.8</u>	