

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

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

Date:    /   /     
yy mm dd

Initials: CAM

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x50.2"

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10538 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +6.667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 38.995  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 21.695  
-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: 3807  
I<sub>beam</sub>: 35  $\mu$ 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): 2:06  
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: Poor beam, DAQ crash

Events      
Charge    

Active trigger LiveTime fraction (NPS Scaler Gui)    

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

Run Number: 3808  
I<sub>beam</sub>: 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): 2:27  
Stop time (from RC): 3:27

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

hTRIG1 rate: 623kHz hTRIG3 rate: 14.8kHz hTRIG4 rate: 12.3kHz  
hTRIG5 rate: 2k hTRIG6 rate: 1.7k  
Data ok  Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 7.4M  
Charge    

Active trigger LiveTime fraction (NPS Scaler Gui) 92.8%

Max NPS anode current (single crystal) 1.52 ( $\mu$ A)

Run Number: 3809  
I<sub>beam</sub>: 35  $\mu$ 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: Junk

Events 7.06M  
Charge    

Active trigger LiveTime fraction (NPS Scaler Gui)    

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

Run Number: 3810  
I<sub>beam</sub>: 35  $\mu$ 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): 3:40  
Stop time (from RC): 4:40

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

hTRIG1 rate: 623kHz hTRIG3 rate: 15kHz hTRIG4 rate: 12kHz  
hTRIG5 rate: 2k hTRIG6 rate: 1.7k  
Data ok  Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 7M  
Charge    

Active trigger LiveTime fraction (NPS Scaler Gui) 92.7%

Max NPS anode current (single crystal) 1.6 ( $\mu$ 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:    /   /         Initials:    

**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**  
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

<b>Run Number:</b> 3811	<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	hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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   
coin   
coin\_sparse\_low

<b>Run Number:</b> 3812	<input checked="" type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 4:44 Stop time (from RC): 5:09	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 357k hTRIG3 rate: 10k hTRIG4 rate: 8.3k	hTRIG5 rate: 1k hTRIG6 rate: 800	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 20 $\mu$ A	Comments: 20 $\mu$ A, 20 minutes			Events 220 Charge _____ 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> 3813	<input checked="" type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 5:10 Stop time (from RC): 5:53	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 150k hTRIG3 rate: 5k hTRIG4 rate: 4k	hTRIG5 rate: 250 hTRIG6 rate: 220	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 10 $\mu$ A	Comments: 10 $\mu$ A, 40 minutes			Events 500k Charge _____ 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> 3814	<input checked="" type="checkbox"/> LH2 10cm <input 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: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): 5:55 Stop time (from RC): 6:12	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 357k hTRIG3 rate: 10k hTRIG4 rate: 8.3k	hTRIG5 rate: 1k hTRIG6 rate: 800	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 20 $\mu$ A	Comments: PS4 run			Events 6M Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

coin\_sparse   
coin   
coin\_sparse\_low

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

$E_{beam}$ : \_\_\_\_\_ 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 NPS Upstream Corr.  $I =$  \_\_\_\_\_ Amp

<b>Run Number:</b> 3815	<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: JUNK

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

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

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

<b>Run Number:</b> 3816	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 2	Start time (from RC): 6:17 Stop time (from RC): 6:32	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 630k hTRIG3 rate: 17k hTRIG4 rate: 14k hTRIG5 rate: 2.3k hTRIG6 rate: 2k	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	---	---	---	---	---

coin\_sparse  coin  coin\_sparse\_low

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

Events 550k Charge \_\_\_\_\_ C

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

Max NPS anode current (single crystal) 1.95 ( $\mu A$ )

<b>Run Number:</b> 3817	<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): 6:46 Stop time (from RC): 7:06	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 300k hTRIG3 rate: 14.5k hTRIG4 rate: 10.8k hTRIG5 rate: 1.2k hTRIG6 rate: 890	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	--	---	---	--	--	--

coin\_sparse  coin  coin\_sparse\_low

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

Events 1.4M Charge \_\_\_\_\_ C

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

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

<b>Run Number:</b> 3818	<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: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 7:07 Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 200k hTRIG3 rate: 9.4k hTRIG4 rate: 7.6k hTRIG5 rate: 830 hTRIG6 rate: 680	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	---	--	---	---	--

coin\_sparse  coin  coin\_sparse\_low

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

Events 880k Charge \_\_\_\_\_ C

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

Max NPS anode current (single crystal) 1.28 ( $\mu A$ )

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

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

Date: 24/1/23  
yy mm dd

Initials: CAM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50.2"**

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.538 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>0.31</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.71</u> mm	<u>0.28</u> mm	
Nomin:	Nomin:	

**HMS**

**SHMS**

**NPS**

$p$ : +6.667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

$\theta$ (TV): 37.995  
Nearest 0.005

$\theta$  = SHMS -16.30  
Nearest 0.005

**Collimator:**

HMS: Large  Sieve

NPS Sweep Magnet  $I$  = 460 Amp

NPS Upstream Corr.  $I$  = 0 Amp

NPS Upstream Corr.  $I$  = 0 Amp

Run Number:

3819

- 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):

7:45

Stop time (from RC):

8:45

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1MHz

hTRIG3 rate

19k

hTRIG4 rate

15k

hTRIG5 rate

4k

hTRIG6 rate

3.5k

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

15  $\mu$ A, 1 hour

Events 10M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1.25 ( $\mu$ A)

Run Number:

3820

- 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):

9:19

Stop time (from RC):

10:39

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1M

hTRIG3 rate

19k

hTRIG4 rate

15k

hTRIG5 rate

4k

hTRIG6 rate

3.5k

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Ran 72hr due to long beam trip

Events 10M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1.5 ( $\mu$ A)

Run Number:

3821

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

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

Start time (from RC):

10:54

Stop time (from RC):

12:36

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:

BCM calibration

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3822

- 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):

12:49

Stop time (from RC):

13:01

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:

Beam unable to reach 15  $\mu$ A

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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



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

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

Date: 24/01/23  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC x 50.2"**

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

HMS

12.495

SHMS

NPS

$\theta$ : +0.667  $\theta$ (TV): 31.995  
From GUI Nearest 0.005

$\theta$ (TV): 37.995  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 408 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>3823</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>13:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1M</u>	hTRIG3 rate <u>19K</u>	hTRIG4 rate <u>15K</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>14:09</u>		hTRIG5 rate <u>4K</u>	hTRIG6 rate <u>3.3K</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>10.4M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.4</u> ( $\mu$ A)			

Run Number: <u>3824</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>14:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1M</u>	hTRIG3 rate <u>19K</u>	hTRIG4 rate <u>15K</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>15:14</u>		hTRIG5 rate <u>4K</u>	hTRIG6 rate <u>3.2K</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>10.4M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.4</u> ( $\mu$ A)			

Run Number: <u>3825</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>15:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1M</u>	hTRIG3 rate <u>19K</u>	hTRIG4 rate <u>15K</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>16:24</u>		hTRIG5 rate <u>4K</u>	hTRIG6 rate <u>3.2K</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>10.4M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.4</u> ( $\mu$ A)			

Run Number: <u>3826</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>16:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.31x10<sup>5</sup></u>	hTRIG3 rate <u>12618</u>	hTRIG4 rate <u>10241</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>16:46</u>		hTRIG5 rate <u>1672</u>	hTRIG6 rate <u>1388</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>4.6M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.852%</u>	Max NPS anode current (single crystal) <u>1.13</u> ( $\mu$ A)			

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

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

Date: 24 / 01 / 23  
 yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50.2"

**Purpose:**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10538 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0.667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 3.8  
Nearest 0.005

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

3H07A	X	Y
<u>1,902</u> mm		<u>0,308</u> mm
Nomin:		Nomin:
3H07C	X	Y
mm		mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 9.8 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>3827</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>16:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>234x10<sup>5</sup></u>	hTRIG3 rate <u>6575</u>	hTRIG4 rate <u>5430</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A			Stop time (from RC): <u>17:29</u>		hTRIG5 rate <u>459</u>	hTRIG6 rate <u>386</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>893k</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99,899</u>	Max NPS anode current (single crystal) <u>1,02</u> ( $\mu$ A)		

Run Number: <u>3828</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>17:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.31x10<sup>5</sup></u>	hTRIG3 rate <u>12649</u>	hTRIG4 rate <u>10508</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>17:54</u>		hTRIG5 rate <u>1790</u>	hTRIG6 rate <u>1453</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>PS4 = 0</u>		Events: _____ Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

Run Number: <u>3829</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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:</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			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>Junk</u>		Events: _____ Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

Run Number: <u>3830</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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):	<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			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>coin rate was too high ~5000</u>		Events: _____ Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

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

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

Date: 24, 01, 23  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics:**  $KinC_x$  50.211

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : 10539 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
 $p$ : +0.667  $\theta(TV)$ : 12.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta(TV)$ : -58  
Nearest 0.005

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

3H07A	X	Y
<u>1.688</u> mm		<u>0.287</u> 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: 3831  
 $I_{beam}$ : \_\_\_\_\_  $\mu A$

- 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: Junk

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

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

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

Run Number: 3832  
 $I_{beam}$ : 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: 3

Start time (from RC): 18:03  
Stop time (from RC): 18:20

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

hTRIG1 rate  $8.49 \times 10^5$  hTRIG3 rate 19162 hTRIG4 rate 15841  
hTRIG5 rate 3349 hTRIG6 rate 2746  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 500k  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui) 97.335%

Max NPS anode current (single crystal) 1.47  $\mu A$

Run Number: 3833  
 $I_{beam}$ : 40  $\mu A$

- 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: KinCix-50-21

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

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

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

Run Number: 3834  
 $I_{beam}$ : 40  $\mu A$

- 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): 18:51  
Stop time (from RC): 18:51

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

hTRIG1 rate  $8.79 \times 10^5$  hTRIG3 rate 19250 hTRIG4 rate 16311  
hTRIG5 rate 3622 hTRIG6 rate 2984  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 7.6M  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.476%

Max NPS anode current (single crystal) 2.67  $\mu A$

# 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 50-21

**Purpose:**  
 Production  
 Test  
 Optics  
 Other:     

HMS, field,  
 current OK?  
 yes  no

E<sub>beam</sub>: 10538 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0 0.667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 35.44  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 19, 14  
-16.30°  
Nearest 0.005

3H07A	X	Y
<u>692</u> mm	<u>0.291</u> 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>3835</u>	<input checked="" type="checkbox"/> LH2 10cm <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>19:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>8.61 x 10<sup>5</sup></u>	hTRIG3 rate <u>19342</u>	hTRIG4 rate <u>15819</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>20:53</u>		hTRIG5 rate <u>3544</u>	hTRIG6 rate <u>3072</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>89M</u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.431</u>	Max NPS anode current (single crystal) <u>2.77</u> ( $\mu$ A)		

Run Number: <u>3836</u>	<input checked="" type="checkbox"/> LH2 10cm <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>20:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>335 x 10<sup>5</sup></u>	hTRIG3 rate <u>9767</u>	hTRIG4 rate <u>8159</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>21:16</u>		hTRIG5 rate <u>818</u>	hTRIG6 rate <u>673</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>7.6K</u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>    </u>	Max NPS anode current (single crystal) <u>    </u> ( $\mu$ A)		

Run Number: <u>3837</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>21:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.38 x 10<sup>5</sup></u>	hTRIG3 rate <u>4836</u>	hTRIG4 rate <u>4104</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>21:58</u>		hTRIG5 rate <u>248</u>	hTRIG6 rate <u>200</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>471K</u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>    </u>	Max NPS anode current (single crystal) <u>    </u> ( $\mu$ A)		

Run Number: <u>3838</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>3.4 x 10<sup>5</sup></u>	hTRIG3 rate <u>9940</u>	hTRIG4 rate <u>    </u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>    </u>		hTRIG5 rate <u>    </u>	hTRIG6 rate <u>    </u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>PS4 = 0 Junk</u>		Events <u>    </u> Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>    </u>	Max NPS anode current (single crystal) <u>    </u> ( $\mu$ A)		

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

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

Date: 24 / 01 / 23  
 yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-21

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

HMS, field, current OK?  
 yes  no

$E_{beam}$ : 10538 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 $p$ : +0 6.667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 35.44  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 19.14  
-16.30°  
Nearest 0.005

3H07A	X	Y
<u>1,708</u>	mm	<u>0,286</u> 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>3839</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>3.96 \times 10^5</math></u>	hTRIG3 rate <u>9819</u>	hTRIG4 rate <u>8177</u>
$I_{beam}$ : <u>20</u> $\mu A$			Stop time (from RC):		hTRIG5 rate <u>814</u>	hTRIG6 rate <u>643</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>DAQ crashed at PS4 = 0 the very end of the run</u>			Events <u>5.2M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.43</u> ( $\mu A$ )	

<b>Run Number:</b> <u>3840</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>22:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>3.5 \times 10^5</math></u>	hTRIG3 rate <u>9815</u>	hTRIG4 rate <u>8203</u>
$I_{beam}$ : <u>20</u> $\mu A$			Stop time (from RC):		hTRIG5 rate <u>819</u>	hTRIG6 rate <u>651</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>PS4 = 0</u>			Events <u>7.2M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )	

<b>Run Number:</b> <u>3841</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>6.82 \times 10^5</math></u>	hTRIG3 rate <u>19175</u>	hTRIG4 rate <u>16093</u>
$I_{beam}$ : <u>40</u> $\mu A$			Stop time (from RC):		hTRIG5 rate <u>2597</u>	hTRIG6 rate <u>2270</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:			Events <u>344K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>2.69</u> ( $\mu A$ )	

<b>Run Number:</b> <u>3842</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>23:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>6.96 \times 10^5</math></u>	hTRIG3 rate <u>14119</u>	hTRIG4 rate <u>11390</u>
$I_{beam}$ : <u>30</u> $\mu A$			Stop time (from RC): <u>23:41</u>		hTRIG5 rate <u>2060</u>	hTRIG6 rate <u>1645</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>1.45M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.800</u>	Max NPS anode current (single crystal) <u>3.23</u> ( $\mu A$ )	

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

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

Date: 24/01/25  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50-21

**E<sub>beam</sub>:** 10538 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  **$\theta$ (TV):** 12.48  
From GUI Nearest 0.005

**SHMS**  
 **$\theta$ (TV):** 35.445  
Nearest 0.005

**NPS**  
 **$\theta$  = SHMS** 19.14  
**-16.30°** Nearest 0.005

3H07A	X	Y
<u>1.706</u>	mm	<u>0.308</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.68</u>	mm	<u>-0.32</u> mm
Nomin:		Nomin:

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

<b>Run Number:</b> <u>3843</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>	<b>Start time (from RC):</b> <u>23:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>3.83 x 10<sup>5</sup></u>	<b>hTRIG3 rate</b> <u>9395</u>	<b>hTRIG4 rate</b> <u>7285</u>
<b>I<sub>beam</sub>:</b> <u>20</u> $\mu$ A			<b>Stop time (from RC):</b> <u>00:06</u>		<b>hTRIG5 rate</b> <u>763</u>	<b>hTRIG6 rate</b> <u>626</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
<b>coin_sparse</b> <input checked="" type="checkbox"/> <b>coin</b> <input type="checkbox"/> <b>coin_sparse_low</b> <input type="checkbox"/>	<b>Comments:</b>		<b>Events</b> <u>860k</u> <b>Charge</b> <u>26mC</u>	<b>Active trigger LiveTime fraction (NPS Scaler Gui)</b> <u>99.941</u>	<b>Max NPS anode current (single crystal) (<math>\mu</math>A)</b> <u>2.36</u>		

<b>Run Number:</b> <u>3844</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>	<b>Start time (from RC):</b> <u>00:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>769k</u>	<b>hTRIG3 rate</b> <u>15k</u>	<b>hTRIG4 rate</b> <u>12k</u>
<b>I<sub>beam</sub>:</b> <u>12</u> $\mu$ A			<b>Stop time (from RC):</b> <u>01:16</u>		<b>hTRIG5 rate</b> <u>2.4k</u>	<b>hTRIG6 rate</b> <u>2k</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
<b>coin_sparse</b> <input checked="" type="checkbox"/> <b>coin</b> <input type="checkbox"/> <b>coin_sparse_low</b> <input type="checkbox"/>	<b>Comments:</b> End off run accel down... Begin LD2, Owl shift		<b>Events</b> <u>6.5M</u> <b>Charge</b> <u>437mC</u>	<b>Active trigger LiveTime fraction (NPS Scaler Gui)</b> <u>99.76</u>	<b>Max NPS anode current (single crystal) (<math>\mu</math>A)</b> <u>1.5</u>		

<b>Run Number:</b> <u>3845</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>	<b>Start time (from RC):</b> <u>1:28</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b>	<b>hTRIG3 rate</b>	<b>hTRIG4 rate</b>
<b>I<sub>beam</sub>:</b> <u>0</u> $\mu$ A			<b>Stop time (from RC):</b> <u>1:28</u>		<b>hTRIG5 rate</b>	<b>hTRIG6 rate</b>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
<b>coin_sparse</b> <input type="checkbox"/> <b>coin</b> <input type="checkbox"/> <b>coin_sparse_low</b> <input type="checkbox"/>	<b>Comments:</b> COSMIC, JUNK		<b>Events</b> _____ <b>Charge</b> _____ C	<b>Active trigger LiveTime fraction (NPS Scaler Gui)</b>	<b>Max NPS anode current (single crystal) (<math>\mu</math>A)</b>		

<b>Run Number:</b> <u>3846</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	<b>Start time (from RC):</b> <u>1:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b>	<b>hTRIG3 rate</b>	<b>hTRIG4 rate</b>
<b>I<sub>beam</sub>:</b> <u>0</u> $\mu$ A			<b>Stop time (from RC):</b> <u>3:43</u>		<b>hTRIG5 rate</b>	<b>hTRIG6 rate</b>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
<b>coin_sparse</b> <input type="checkbox"/> <b>coin</b> <input type="checkbox"/> <b>coin_sparse_low</b> <input type="checkbox"/>	<b>Comments:</b> COSMIC		<b>Events</b> <u>6782</u> <b>Charge</b> _____ C	<b>Active trigger LiveTime fraction (NPS Scaler Gui)</b>	<b>Max NPS anode current (single crystal) (<math>\mu</math>A)</b> <u>2.61</u>		

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

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

Date: 24/1/24  
yy mm dd

Initials: CAM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50-2'**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10539 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: +06.667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

$\theta$ (TV): 35.445  
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:

3847

- 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):

4:03

Stop time (from RC):

4:04

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:

Junk, PS2 not 6

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3848

- 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):

4:05

Stop time (from RC):

5:06

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:

Bad start, Check LT

Events 5.3M  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3849

- 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):

5:30

Stop time (from RC):

6:43

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 7.2M  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3850

- 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):

6:44

Stop time (from RC):

7:46

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 6.5M  
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: 24/1/24  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50 2<sup>#</sup>**

**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>1.7</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 6.667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

$\theta$ (TV): 35.445  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

Collimator:

HMS: Large  Sieve

NPS Sweep Magnet I = 465 Amp

NPS Upstream Corr. I = 0 Amp

NPS Upstream Corr. I = 0 Amp

Run Number:

3851

- 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):

7:47

Stop time (from RC):

9:09

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

760 K

hTRIG3 rate

15 K

hTRIG4 rate

12 K

Data ok

Junk

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

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Ran long by accident - will make up for beam trips in runs 3844 3848

Events 7.5 M  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1.45 ( $\mu$ A)

Run Number:

3852

- 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):

9:10

Stop time (from RC):

10:15

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

760 K

hTRIG3 rate

15 K

hTRIG4 rate

12 K

Data ok

Junk

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

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 7.1 M  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1.5 ( $\mu$ A)

Run Number:

3853

- 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):

10:18

Stop time (from RC):

10:58

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

445 K

hTRIG3 rate

10.2 K

hTRIG4 rate

8.4 K

Data ok

Junk

I<sub>beam</sub>: 8  $\mu$ A

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1.6 M  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 0.9 ( $\mu$ A)

Run Number:

3854

- 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):

11:05

Stop time (from RC):

11:46

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

253 K

hTRIG3 rate

6.5 K

hTRIG4 rate

5.3 K

Data ok

Junk

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

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events \_\_\_\_\_  
Charge 0 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: 24/1/24

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50\_2'**

**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: +0.6667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 35.445  
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>3855</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>620 K</u>	hTRIG3 rate <u>12.7 K</u>	hTRIG4 rate <u>10.2 K</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>12:05</u>		hTRIG5 rate <u>1.5 K</u>	hTRIG6 rate <u>1.3 K</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>COA error - end of run Analyze later to determine if junk.</u>	Events <u>6.8 M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.2</u> ( $\mu$ A)
--	--	---------------------------------------	---	---

Run Number: <u>3856</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>590 K</u>	hTRIG3 rate <u>12.4 K</u>	hTRIG4 rate <u>10 K</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>12:32</u>		hTRIG5 rate <u>1.6 K</u>	hTRIG6 rate <u>1.3 K</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>7.6 M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.2</u> ( $\mu$ A)
--	-----------	---------------------------------------	---	---

Run Number: <u>3857</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>12:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>580 K</u>	hTRIG3 rate <u>14.7 K</u>	hTRIG4 rate <u>12.3 K</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>12:52</u>		hTRIG5 rate <u>1.8 K</u>	hTRIG6 rate <u>1.5 K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>248 K</u> 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 <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) _____ ( $\mu$ A)
---	-----------	--------------------------------	---	--

# p(e,e'γ) p Run Sheet

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

Date: 24/1/24  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50 2"**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 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:	Nomin:	
3H07C	X	Y
<u>0.7</u> mm	<u>0.3</u> mm	
Nomin:	Nomin:	

HMS

SHMS

NPS

p: +0.6667 θ(TV): 12.48  
From GUI Nearest 0.005

θ(TV): 37.995  
Nearest 0.005

θ = SHMS 21.7  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 408 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>3858</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.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>15:07</u> Stop time (from RC): <u>15:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>450 K</u> hTRIG5 rate: <u>1.9 K</u>	hTRIG3 rate: <u>19 K</u> hTRIG6 rate: <u>1.0 K</u>	hTRIG4 rate: <u>16 K</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> μA	Comments: <u>Frequent beam trips</u>		Events <u>44</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		

Run Number: <u>3859</u>	<input checked="" type="checkbox"/> LH2 10cm <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>16:08</u> Stop time (from RC): <u>17:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>4.39 x 10<sup>5</sup></u> hTRIG5 rate: <u>1783</u>	hTRIG3 rate: <u>19764</u> hTRIG6 rate: <u>1579</u>	hTRIG4 rate: <u>16043</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> μA	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.930</u>	Max NPS anode current (single crystal) <u>1.94</u> (μA)		

Run Number: <u>3860</u>	<input checked="" type="checkbox"/> LH2 10cm <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>17:10</u> Stop 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>1.62 x 10<sup>5</sup></u> hTRIG5 rate: <u>457</u>	hTRIG3 rate: <u>9727</u> hTRIG6 rate: <u>389</u>	hTRIG4 rate: <u>8374</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> μA	Comments:		Events <u>4604</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.873</u>	Max NPS anode current (single crystal) <u>1.12</u> (μA)		

Run Number: <u>3861</u>	<input checked="" type="checkbox"/> LH2 10cm <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>17:31</u> Stop time (from RC): <u>18:1</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>66400</u> hTRIG5 rate: <u>161</u>	hTRIG3 rate: <u>4845</u> hTRIG6 rate: <u>132</u>	hTRIG4 rate: <u>4034</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments:		Events <u>3274</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8107</u>	Max NPS anode current (single crystal) <u>0.49</u> (μA)		

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

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

Date: 24/01/24  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50\_211

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : 10539 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS  
 $p$ : +0.667  $\theta(TV)$ : 12.48  
From GUI Nearest 0.005

SHMS -16.3  $\theta(TV)$ : 38  
Nearest 0.005

NPS  $\theta =$  SHMS 21.7  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1,697</u>	mm	<u>0,310</u>
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve  NPS Sweep Magnet 1 = 807.9 Amp NPS Upstream Corr. 1 = Amp NPS Upstream Corr. 1 = Amp

Run Number: 3862  
 $I_{beam}$ : 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: 0  
PS5: -1  
PS6: -1

Start time (from RC): 18:13  
Stop time (from RC): 18:33

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

hTRIG1 rate: 1.59x10<sup>5</sup>  
hTRIG5 rate: 458

hTRIG3 rate: 9616  
hTRIG6 rate: 380

hTRIG4 rate: 8083  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: PS4 = 0

Events 6,84  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1,19 ( $\mu A$ )

Run Number: 3863  
 $I_{beam}$ : 40  $\mu A$

- 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): 18:36  
Stop time (from RC): 18:39

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

hTRIG1 rate: 3.16x10<sup>5</sup>  
hTRIG5 rate: 1428

hTRIG3 rate: 19311  
hTRIG6 rate: 1116

hTRIG4 rate: 15720  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Rate was ~300k stopped to adjust the rate

Events 151k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.578

Max NPS anode current (single crystal) 2,03 ( $\mu A$ )

Run Number: 3865  
 $I_{beam}$ : 40  $\mu A$

- 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): 18:43  
Stop time (from RC): 18:59

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

hTRIG1 rate: 3.4x10<sup>5</sup>  
hTRIG5 rate: 1361

hTRIG3 rate: 18746  
hTRIG6 rate: 1176

hTRIG4 rate: 15824  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 266k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number: 3866  
 $I_{beam}$ : 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): 19:56  
Stop time (from RC): 20:14

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

hTRIG1 rate: 3.3x10<sup>5</sup>  
hTRIG5 rate: 1012

hTRIG3 rate: 13641  
hTRIG6 rate: 815

hTRIG4 rate: 10820  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 592k  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99,936

Max NPS anode current (single crystal) 1.97 ( $\mu A$ )

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

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

Date: 24, 01, 24  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-211**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10538 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1,694</u> mm		<u>0,313</u> mm
Nomin:		Nomin:
3H07C	X	Y
mm		mm
Nomin:		Nomin:

HMS  
p: +0.6667  $\theta$ (TV): 12.48  
From GUI Nearest 0.005

SHMS -16.3 =  
 $\theta$ (TV): 38.00  
Nearest 0.005

NPS ☺  
 $\theta$  = SHMS 21.7  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 467.3 Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp  
NPS Upstream Corr. I = \_\_\_\_\_ Amp

Run Number: <u>3867</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>20:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8x10<sup>5</sup></u>	hTRIG3 rate <u>9129</u>	hTRIG4 rate <u>7260</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>20:37</u>		hTRIG5 rate <u>473</u>	hTRIG6 rate <u>350</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>394k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.952</u>	Max NPS anode current (single crystal) <u>1.57</u> ( $\mu$ A)		

Run Number: <u>3868</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>21:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>4.56x10<sup>5</sup></u>	hTRIG3 rate <u>18235</u>	hTRIG4 rate <u>14935</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>22:10</u>		hTRIG5 rate <u>2092</u>	hTRIG6 rate <u>1697</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: <del>3868</del>		Events <u>3.8M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.828</u>	Max NPS anode current (single crystal) <u>1.34</u> ( $\mu$ A)		

Run Number: <u>3869</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.4x10<sup>5</sup></u>	hTRIG3 rate <u>18718</u>	hTRIG4 rate <u>15449</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>23:25</u>		hTRIG5 rate <u>2456</u>	hTRIG6 rate <u>1799</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>5.9M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.800</u>	Max NPS anode current (single crystal) <u>1.17</u> ( $\mu$ A)		

Run Number: <u>3870</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>23:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.29x10<sup>5</sup></u>	hTRIG3 rate <u>18551</u>	hTRIG4 rate <u>15141</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>00:35</u>		hTRIG5 rate <u>2219</u>	hTRIG6 rate <u>1872</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>6.5M</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.743</u>	Max NPS anode current (single crystal) <u>1.55</u> ( $\mu$ 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\_x50-2"

$E_{\text{beam}}$ : 10538 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>0.28</u> mm
Nomin:		Nomin:

**HMS**

**SHMS** -16.3 = **NPS**

$p$ : +06.667  $\theta$ (TV): 12.490  
From GUI Nearest 0.005

$\theta$ (TV): 37.995  
Nearest 0.005

$\theta$  = SHMS 24.895  
-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:

3871

- 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):

00:36:

Stop time (from RC):

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

hTRIG1 rate  
533k

hTRIG3 rate  
18.8k

hTRIG4 rate  
15.4k

hTRIG5 rate  
2k

hTRIG6 rate  
1.6k

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 56M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.86%

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

Run Number:

3872

- 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):

1:36

Stop time (from RC):

1:52

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

hTRIG1 rate  
533k

hTRIG3 rate  
18.8k

hTRIG4 rate  
15.4k

hTRIG5 rate  
2k

hTRIG6 rate  
1.6k

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

South Linac Drop.

Events 1.4M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100

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

Run Number:

3873

- 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):

8:47

Stop time (from RC):

9:47

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

hTRIG1 rate  
533k

hTRIG3 rate  
18820

hTRIG4 rate  
15421

hTRIG5 rate  
2255

hTRIG6 rate  
1813

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 590360  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
100

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

Run Number:

3874

- 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):

9:49

Stop time (from RC):

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

hTRIG1 rate  
54125

hTRIG3 rate  
18320

hTRIG4 rate  
7457.6

hTRIG5 rate

hTRIG6 rate

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Most time no beam.

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:Runsheets\_dvcs\_NPS.pdf

Date: 2024 <sup>01</sup> / <sup>25</sup> / <sup>25</sup>  
 yy mm dd

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

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50-2"**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10538 GeV

Raster:  On  Off

Size: 2x2

Beam position and angle on target:

HMS

SHMS -16.3 = NPS

p: +/- 6.667°  $\theta$ (TV): 12.480  
From GUI Nearest 0.005

$\theta$ (TV): 38  
Nearest 0.005

$\theta$  = SHMS -16.30° 21.7°  
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 = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 3875	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 10:06 Stop time (from RC): 11:04	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 55425 hTRIG5 rate: 2191	hTRIG3 rate: 18662.5 hTRIG6 rate: 1901	hTRIG4 rate: 15122.4 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	--	--	---	---	---	---	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events 5069700 Charge C	Active trigger LiveTime fraction (NPS Scaler Gui) 100	Max NPS anode current (single crystal) 1.63 (μA)
--	-----------	----------------------------	---	--

Run Number: 3876	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 11:06 Stop time (from RC): 11:55	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 325 hTRIG5 rate: 851.8	hTRIG3 rate: 12314.6 hTRIG6 rate: 702.9	hTRIG4 rate: 10076.5 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	--	--	---	---	--	--	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events 928920 Charge C	Active trigger LiveTime fraction (NPS Scaler Gui) 100	Max NPS anode current (single crystal) 0.83 (μA)
--	-----------	---------------------------	---	--

Run Number: 3877	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 12:25 Stop time (from RC): 13:08	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 11725 hTRIG5 rate: 250.4	hTRIG3 rate: 6050.7 hTRIG6 rate: 174.5	hTRIG4 rate: 5031.7 <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 478453 Charge C	Active trigger LiveTime fraction (NPS Scaler Gui) 100	Max NPS anode current (single crystal) 1.09 (μA)
--	-----------	---------------------------	---	--

Run Number: 3878	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: 1 PS2: 1 PS3: 1 PS4: 0 PS5: 1 PS6: 1	Start time (from RC): 13:10 Stop time (from RC): 13:17	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 30925 hTRIG5 rate: 865.3	hTRIG3 rate: 12314 hTRIG6 rate: 740.3	hTRIG4 rate: 9907 <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: LiveTime is low.	Events _____ Charge C	Active trigger LiveTime fraction (NPS Scaler Gui) 65%	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:     /     /      
yy / mm / dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 50-2"

**Purpose:**

- Production
- Test
- Optics
- Other:

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10538 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS

SHMS -16.3 = NPS

p: +/- -6.667  $\theta$ (TV): 12.480  
From GUI Nearest 0.005

$\theta$ (TV): 38  
Nearest 0.005

$\theta$  = 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 = 468 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>3879</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:19</u> Stop time (from RC): <u>13:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3.0625</u>	hTRIG3 rate <u>12247.8</u>	hTRIG4 rate <u>10189.6</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A					hTRIG5 rate <u>888</u>	hTRIG6 rate <u>751.6</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>423478</u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>1.51</u> ( $\mu$ A)
--	-----------	---	---	--

Run Number: <u>3881</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>13:46</u> Stop time (from RC): <u>14:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>405</u>	hTRIG3 rate <u>18679</u>	hTRIG4 rate <u>15414.7</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A					hTRIG5 rate <u>1632.2</u>	hTRIG6 rate <u>1334.6</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>24153</u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>   </u> ( $\mu$ A)
--	-----------	--	--	---

Run Number: <u>3882</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>14:06</u> Stop time (from RC): <u>14:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.525</u>	hTRIG3 rate <u>18644</u>	hTRIG4 rate <u>15209.5</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A					hTRIG5 rate <u>2194.2</u>	hTRIG6 rate <u>1840.4</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>4337698</u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>0.9</u> ( $\mu$ A)
--	-----------	--	---	---

Run Number: <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.l	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 <sub>beam</sub> : <u>   </u> $\mu$ 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 <u>   </u> Charge <u>   </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>   </u> ( $\mu$ A)
---	-----------	--	---	---

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

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

Date: 24/1/25  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**

Elastic LHD 5pys

**Purpose:**

- Production
- Test
- Optics
- Other: elastics

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.534 GeV

Raster:  On  Off

Size: 2x2

Beam position and angle on target:

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

**HMS**

**SHMS**

**NPS**

p: 0  $\theta$ (TV): 4.078  $\theta$ (TV): 29.855  
From GUI Nearest 0.005

$\theta$ (TV): 32.885  
Nearest 0.005

$\theta$  = SHMS -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>3883</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>17:39</u> Stop time (from RC): <u>18:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>201k</u>	hTRIG3 rate <u>120</u>	hTRIG4 rate <u>13</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:			Events <u>13k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.8</u> ( $\mu$ A)	

coin_sparse <input type="checkbox"/>	coin <input checked="" type="checkbox"/>	coin_sparse_low <input type="checkbox"/>	Comments:			Events <u>13k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.8</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.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:			Events _____ Charge _____ C	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/>	coin <input type="checkbox"/>	coin_sparse_low <input type="checkbox"/>	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):  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	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)
--------------------------------------	-------------------------------	--	-----------	--	--	--------------------------------	---	--

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
I <sub>beam</sub> : _____ $\mu$ A	Comments:			Events _____ Charge _____ C	hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/>	coin <input type="checkbox"/>	coin_sparse_low <input type="checkbox"/>	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: 24 / 1 / 25  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
5 pass Elastics LH2

**Purpose:**

- Production
- Test
- Optics
- Other: elastie

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** 4  
**p: +/-** 4.078 **θ(TV):** 29.865  
From GUI Nearest 0.005

**SHMS**  
**θ(TV):** 31.845  
Nearest 0.005

**NPS**  
**θ = SHMS**  
**-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

<b>Run Number:</b> <u>3884</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>	<b>Start time (from RC):</b> <u>18:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>273 K</u>	<b>hTRIG3 rate</b> <u>120</u>	<b>hTRIG4 rate</b> <u>13</u>
<b>I<sub>beam</sub>:</b> <u>40</u> μA			<b>Stop time (from RC):</b> <u>20:01</u>		<b>hTRIG5 rate</b> <u>20</u>	<b>hTRIG6 rate</b> <u>7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

**Comments:**

**Events** 73K **Active trigger LiveTime fraction (NPS Scaler Gui)**  
**Charge** C

**Max NPS anode current (single crystal)**  
2.0 (μA)

<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: _____	<b>Start time (from RC):</b>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b>	<b>hTRIG3 rate</b>	<b>hTRIG4 rate</b>
<b>I<sub>beam</sub>:</b> _____ μA			<b>Stop time (from RC):</b>		<b>hTRIG5 rate</b>	<b>hTRIG6 rate</b>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

**Comments:**

**Events** \_\_\_\_\_ **Active trigger LiveTime fraction (NPS Scaler Gui)**  
**Charge** \_\_\_\_\_ C

**Max NPS anode current (single crystal)**  
\_\_\_\_\_ (μA)

<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: _____	<b>Start time (from RC):</b>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b>	<b>hTRIG3 rate</b>	<b>hTRIG4 rate</b>
<b>I<sub>beam</sub>:</b> _____ μA			<b>Stop time (from RC):</b>		<b>hTRIG5 rate</b>	<b>hTRIG6 rate</b>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

**Comments:**

**Events** \_\_\_\_\_ **Active trigger LiveTime fraction (NPS Scaler Gui)**  
**Charge** \_\_\_\_\_ C

**Max NPS anode current (single crystal)**  
\_\_\_\_\_ (μA)

<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: _____	<b>Start time (from RC):</b>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b>	<b>hTRIG3 rate</b>	<b>hTRIG4 rate</b>
<b>I<sub>beam</sub>:</b> _____ μA			<b>Stop time (from RC):</b>		<b>hTRIG5 rate</b>	<b>hTRIG6 rate</b>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

**Comments:**

**Events** \_\_\_\_\_ **Active trigger LiveTime fraction (NPS Scaler Gui)**  
**Charge** \_\_\_\_\_ C

**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: 21 / 1 / 25  
 yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
5 pass elastres LH2

**Purpose:**

- Production
- Test
- Optics
- Other: elaste

HMS, field,  
 current OK?  
 yes  no

E<sub>beam</sub>: 10539 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: +/- 4.078  $\theta$ (TV): 29.845  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 31.055  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS  
-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>3885</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>20:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>360</u> K	hTRIG3 rate <u>120</u>	hTRIG4 rate <u>10</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>21:15</u>		hTRIG5 rate <u>20</u>	hTRIG6 rate <u>7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>77K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.5</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.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

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 <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)		

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 <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) ( $\mu$ A)		

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

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

Date: 24, 1, 25  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
clashes Spass LH2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: clashes

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

E<sub>beam</sub>: \_\_\_\_\_ GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +/- 4.078  $\theta$ (TV): 29.845  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.465  
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 = 0 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

<b>Run Number:</b> <u>3886</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>21:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>167k</u>	hTRIG3 rate <u>110</u>	hTRIG4 rate <u>12</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>22:27</u>		hTRIG5 rate <u>18</u>	hTRIG6 rate <u>7</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>00k</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

<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):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

<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):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

<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):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> oin <input type="checkbox"/> oin_sparse_low <input type="checkbox"/>	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)		

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

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

Date: 24/1/25  
 yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
Elastic Scat LH2

**Purpose:**

- Production
- Test
- Optics
- Other: elastic

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: +/- 4.078  $\theta$ (TV): 29.845  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.26  
Nearest 0.005

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

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 6 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: 3887  
 I<sub>beam</sub>: 40  $\mu$ A

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

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

Start time (from RC): 22:37  
 Stop time (from RC): 23:38

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 250k  
 hTRIG3 rate: 115  
 hTRIG4 rate: 13  
 hTRIG5 rate: 23  
 hTRIG6 rate: 7

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 15k  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1.8 ( $\mu$ A)

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

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

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.l

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

Start time (from RC):  
 Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate  
 hTRIG3 rate  
 hTRIG4 rate  
 hTRIG5 rate  
 hTRIG6 rate

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

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

Active trigger LiveTime fraction (NPS Scaler Gui)

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

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

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

Date: 24/01/26  
yy mm dd

Initials: MK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
Pass Plasmas LH2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: elashes

**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:** +/- 4.078  **$\theta$ (TV):** 29.845  
From GUI Nearest 0.005

**SHMS**  
 **$\theta$ (TV):** 31.060  
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 = 0 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

**Run Number:** 3888  
**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):** 23.49  
**Stop time (from RC):** 00:52  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 360 K  
 hTRIG3 rate: 120  
 hTRIG4 rate: 15  
 hTRIG5 rate: 20  
 hTRIG6 rate: 7  
 Data ok  
 Junk

**coin\_sparse**   
**coin**   
**coin\_sparse\_low**   
**Comments:**  $\theta_{SHMS} = 31.058$   
**Events** 76K **Active trigger LiveTime fraction (NPS Scaler Gui)** 100%  
**Charge** 128mC **Max NPS anode current (single crystal) ( $\mu$ A)** 2.8

**Run Number:** 3889  
**I<sub>beam</sub>:** 40  $\mu$ A  
 LH2 10cm  
 LD2 10cm  
 Dummy 10cm  
 Optics#1 8cm  
 C 0.5% r.l.  
 PS1: -1 PS2: 7 PS3: -1 PS4: -1 PS5: 0 PS6: -1  
**Start time (from RC):** 1:01  
**Stop time (from RC):** 2:08  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 1.66  $\cdot 10^5$   
 hTRIG3 rate: 122  
 hTRIG4 rate: 12  
 hTRIG5 rate: 18  
 hTRIG6 rate: 6  
 Data ok  
 Junk

**coin\_sparse**   
**coin**   
**coin\_sparse\_low**   
**Comments:**  $\theta_{SHMS} = 33.47$   
**Events** 65K **Active trigger LiveTime fraction (NPS Scaler Gui)** 100%  
**Charge** 116mC **Max NPS anode current (single crystal) ( $\mu$ A)** 1.41

**Run Number:** 3890  
**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: 7 PS4: 7 PS5: 0 PS6: -1  
**Start time (from RC):** 2:15  
**Stop time (from RC):** 2:25  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 2.45  $\cdot 10^5$   
 hTRIG3 rate: 128  
 hTRIG4 rate: 14  
 hTRIG5 rate: 20  
 hTRIG6 rate: 8  
 Data ok  
 Junk

**coin\_sparse**   
**coin**   
**coin\_sparse\_low**   
**Comments:**  $\theta_{SHMS} = 32.264$   
**Events** 10K **Active trigger LiveTime fraction (NPS Scaler Gui)** 100%  
**Charge** 16mC **Max NPS anode current (single crystal) ( $\mu$ A)** 1.47

**Run Number:** 3891  
**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):** 2:39  
**Stop time (from RC):** 3:39  
 Settings Verified?  
 HV OK?  
 50k OK?  
 hTRIG1 rate: 2.34  $\cdot 10^5$   
 hTRIG3 rate: 132  
 hTRIG4 rate: 13  
 hTRIG5 rate: 23  
 hTRIG6 rate: 8  
 Data ok  
 Junk

**coin\_sparse**   
**coin**   
**coin\_sparse\_low**   
**Comments:**  $\theta_{SHMS} = 32.264$   
**Events** C **Active trigger LiveTime fraction (NPS Scaler Gui)** 100%  
**Charge** C **Max NPS anode current (single crystal) ( $\mu$ A)** 2.17



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

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

Date: 24/01/26  
yy mm dd

Initials: MB

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
5 pass elastic LH2

**Purpose:**

- Production
- Test
- Optics
- Other: elastic

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.534 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.71</u> mm		<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- 4.078  $\theta$ (TV): 29.845  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 31.055  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.755  
-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>3892</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>3:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3.52 · 10<sup>5</sup></u>	hTRIG3 rate <u>120</u>	hTRIG4 rate <u>13</u>
I <sub>beam</sub> : <u>40 <math>\mu</math>A</u>	Comments: <u><math>\theta_{SHMS} = 31.055</math></u>		Stop time (from RC): <u>4:49</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>21</u>	hTRIG6 rate <u>6</u>	

coin\_sparse   
coin   
coin\_sparse\_low   
Events 33K  
Charge 121mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2.52 ( $\mu$ A)

Run Number: <u>3893</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>4:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.27 · 10<sup>5</sup></u>	hTRIG3 rate <u>117</u>	hTRIG4 rate <u>12</u>
I <sub>beam</sub> : <u>40 <math>\mu</math>A</u>	Comments: <u><math>\theta_{SHMS} = 33.47</math> (new HV)</u>		Stop time (from RC): <u>5:59</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>23</u>	hTRIG6 rate <u>7</u>	

coin\_sparse   
coin   
coin\_sparse\_low   
Events 70K  
Charge 127mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2.59 ( $\mu$ A)

Run Number: <u>3894</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>5:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.29 · 10<sup>5</sup></u>	hTRIG3 rate <u>119</u>	hTRIG4 rate <u>10</u>
I <sub>beam</sub> : <u>40 <math>\mu</math>A</u>	Comments: <u><math>\theta_{SHMS} = 33.47</math></u>		Stop time (from RC): <u>6:51</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>19</u>	hTRIG6 rate <u>7</u>	

coin\_sparse   
coin   
coin\_sparse\_low   
Events 52K  
Charge 90mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2.40 ( $\mu$ A)

Run Number: <u>3895</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>6:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>3.22 · 10<sup>5</sup></u>	hTRIG3 rate <u>118</u>	hTRIG4 rate <u>12</u>
I <sub>beam</sub> : <u>40 <math>\mu</math>A</u>	Comments: <u><math>\theta = 32.264</math></u>		Stop time (from RC): <u>7:53</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>23</u>	hTRIG6 rate <u>7</u>	

coin\_sparse   
coin   
coin\_sparse\_low   
Events 57K  
Charge 85mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 2.66 ( $\mu$ A)

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

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

Date: 24/01/26  
yy mm dd

Initials: ML

Use a separate sheet for each configuration.

**Kinematics: KinC\_x**  
5 pass elastics

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: elastics

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.534 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +/- 4.078  $\theta$ (TV): 29.845  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 32.264  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 15.964  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.71</u> mm		<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

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

Run Number: 3896  
 I<sub>beam</sub>: 40  $\mu$ A

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

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

Start time (from RC): 7:54  
 Stop time (from RC): 8:50

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 3.15.10<sup>5</sup>  
 hTRIG3 rate: 120  
 hTRIG4 rate: 15  
 hTRIG5 rate: 21  
 hTRIG6 rate: 7

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:  $\theta_{SHMS} = 32.264$

Events ~80k  
 Charge ~11 C

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

Max NPS anode current (single crystal): ~2 ( $\mu$ A)

Run Number: 3897  
 I<sub>beam</sub>: 40  $\mu$ A

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

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

Start time (from RC): 8:55  
 Stop time (from RC): 8:59

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 449k  
 hTRIG3 rate: 114  
 hTRIG4 rate: 12  
 hTRIG5 rate: 29  
 hTRIG6 rate: 7

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:  $\theta_{SHMS} = 31.050$

Events 80k  
 Charge ~12 C

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

Max NPS anode current (single crystal): 2 ( $\mu$ A)

Run Number: 3898  
 I<sub>beam</sub>: 40  $\mu$ A

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

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

Start time (from RC): 10:01  
 Stop time (from RC): 10:30

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 450k  
 hTRIG3 rate: 110  
 hTRIG4 rate: 13  
 hTRIG5 rate: 30  
 hTRIG6 rate: 7

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: Repeat of the last run. After this run Access: NPS back to 4m

Events 38k  
 Charge ~0.58 C

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

Max NPS anode current (single crystal): 2 ( $\mu$ A)

Run 3899 was a CODA crash.  $\rightarrow$  59mc

Run Number: 3900  
 I<sub>beam</sub>: 35  $\mu$ 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): 13:04  
 Stop time (from RC):

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.4 MHz  
 hTRIG3 rate: 3400  
 hTRIG4 rate: 2480  
 hTRIG5 rate: 1990  
 hTRIG6 rate: 1478

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: Kin x50\_3' Production Data rate 80 MB/sec

Events 3.8M  
 Charge 1 C

Active trigger LiveTime fraction (NPS Scaler Gui): 100

Max NPS anode current (single crystal): 2 ( $\mu$ A)

~~OK~~  
 .086 C

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

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

Date: 24 / 1 / 26  
 yy mm dd

Initials: RM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 50\_3'**

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{\text{beam}}$ : 10.537 GeV

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

Beam position and angle on target:

3H07A	X	<u>1.74</u> mm	Y	<u>0.287</u> mm
Nomin:			Nomin:	
3H07C	X	<u>0.694</u> mm	Y	<u>0.310</u> mm
Nomin:			Nomin:	

**HMS**

$\theta$ : +5.253 From GUI  $\theta$ (TV): 16.930 Nearest 0.005

**SHMS**

$\theta$ (TV): 29.730 Nearest 0.005

**NPS**

$\theta$  = SHMS 13.430  
 -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:

3901

- 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):

14:03

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

hTRIG1 rate

2.4e6

hTRIG3 rate

3472

hTRIG4 rate

2614

$I_{\text{beam}}$ : 35  $\mu$ A

Stop time (from RC):

15:00

hTRIG5 rate

1915

hTRIG6 rate

1450

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 35  $\mu$ A

Events 3.4M  
 Charge 78mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 2 ( $\mu$ A)

Run Number:

3902

- 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):

15:00

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

hTRIG1 rate

825k

hTRIG3 rate

1018

hTRIG4 rate

782

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

Stop time (from RC):

15:45

hTRIG5 rate

226

hTRIG6 rate

180

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 10  $\mu$ A

Events 396k  
 Charge 19mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 2 ( $\mu$ A)

Run Number:

3903

- 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):

15:46

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

hTRIG1 rate

$1.6 \times 10^6$

hTRIG3 rate

2013

hTRIG4 rate

1525

$I_{\text{beam}}$ : 20  $\mu$ A

Stop time (from RC):

16:06

hTRIG5 rate

764

hTRIG6 rate

546

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 20  $\mu$ A

Events 20,408  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 100

Max NPS anode current (single crystal) 2 ( $\mu$ A)

Run Number:

3904

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

PS1: \_\_\_\_\_  
 PS2: \_\_\_\_\_  
 PS3: \_\_\_\_\_  
 PS4: 0  
 PS5: \_\_\_\_\_  
 PS6: \_\_\_\_\_

Start time (from RC):

16:10

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

hTRIG1 rate

$1.62e+06$

hTRIG3 rate

2027.7

hTRIG4 rate

1554.0

$I_{\text{beam}}$ : 20  $\mu$ A

Stop time (from RC):

16:33

hTRIG5 rate

778.5

hTRIG6 rate

585.5

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 20  $\mu$ A, PS4: 0

Events 1936,07  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 3.41 ( $\mu$ A)

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

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

Date: 24 / 1 / 26  
yy mm dd

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

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:

3H07A	X	Y
1.72 mm	0.24 mm	
Nomin:	Nomin:	
3H07C	X	Y
0.645 mm	.307 mm	
Nomin:	Nomin:	

HMS

SHMS

NPS

p: +/- \_\_\_\_\_  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 29.73  
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: 3906	<input checked="" type="checkbox"/> LH2 10cm <input type="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: 3	Start time (from RC): 16:42	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate 2.21e+06	hTRIG3 rate 3440	hTRIG4 rate 2574
I <sub>beam</sub> : 35 $\mu$ A	Comments:		Stop time (from RC):	Events _____ Charge _____ C	hTRIG5 rate 1842.5	hTRIG6 rate 1361	<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"/>	Active trigger LiveTime fraction (NPS Scaler Gui)		Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: 3909	<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): 17:20	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 2.39e+06	hTRIG3 rate 3136.3	hTRIG4 rate 2096.1
I <sub>beam</sub> : 30 $\mu$ A	Comments:		Stop time (from RC): 17:41	Events 434360 Charge _____ C	hTRIG5 rate 1772.1	hTRIG6 rate 1149	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)		Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: 3910	<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): 17:43	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 2.36 e+06	hTRIG3 rate 3087	hTRIG4 rate 2043
I <sub>beam</sub> : 30 $\mu$ A	Comments:		Stop time (from RC):	Events 553089 Charge _____ C	hTRIG5 rate 1727	hTRIG6 rate 1148	<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"/>	Active trigger LiveTime fraction (NPS Scaler Gui)		Max NPS anode current (single crystal) ( $\mu$ A)				

Run Number: 3911	<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): 17:54	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.77e+06	hTRIG3 rate 2072	hTRIG4 rate 1411
I <sub>beam</sub> : 20 $\mu$ A	Comments:		Stop time (from RC): <del>18:14</del> 18:14	Events 62065 Charge _____ C	hTRIG5 rate 840.6	hTRIG6 rate 583.7	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Active trigger LiveTime fraction (NPS Scaler Gui)		Max NPS anode current (single crystal) ( $\mu$ A)				

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

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

Date: 24/11/26  
yy mm dd

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

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>: 10.539 GeV

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

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u> mm		<u>0.285</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u> mm		<u>0.28</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +/- \_\_\_\_\_  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 29.73  
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:

3912

- 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):  
1833

Stop time (from RC):

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

hTRIG1 rate  
2.52e+06

hTRIG3 rate  
4058

hTRIG4 rate  
2863.8

hTRIG5 rate  
2538

hTRIG6 rate  
1801

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

15  $\mu$  A

Events 528628  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

43.994

Max NPS anode current (single crystal)

3.75 ( $\mu$ A)

Run Number:

3913

- 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):

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

hTRIG1 rate  
2.52e+06

hTRIG3 rate  
4004

hTRIG4 rate  
2891

hTRIG5 rate  
2445

hTRIG6 rate  
1806

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 598411  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.86

Max NPS anode current (single crystal)

3.76 ( $\mu$ A)

Run Number:

3914

- 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):  
2142

Stop time (from RC):

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

hTRIG1 rate  
2.51e+06

hTRIG3 rate  
4067

hTRIG4 rate  
2824

hTRIG5 rate  
2445

hTRIG6 rate  
1743

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Beam on only for about 10 min

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

Active trigger LiveTime fraction (NPS Scaler Gui)

99.85%

Max NPS anode current (single crystal)

4.12 ( $\mu$ A)

Run Number:

3915

- 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):  
2251

Stop time (from RC):

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

hTRIG1 rate  
2.50e+06

hTRIG3 rate  
3924

hTRIG4 rate  
2781

hTRIG5 rate  
2474

hTRIG6 rate  
1750

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 521784  
Charge \_\_\_\_\_ C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.86

Max NPS anode current (single crystal)

4.16 ( $\mu$ A)

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

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

Date: 24 / 11 / 26  
 yy mm dd

Initials: AP

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**  
 $p$ : +0.5253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 29.73  
Nearest 0.005

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

3H07A	X	Y
<u>1.7</u> mm	<u>0.31</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.69</u> mm	<u>0.287</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>3916</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>23:49</u> Stop time (from RC): <u>00:51</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.5e+06</u> hTRIG3 rate: <u>4016</u> hTRIG4 rate: <u>2786</u>	hTRIG5 rate: <u>2425</u> hTRIG6 rate: <u>1731</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>15</u> $\mu$ A	Comments:		Events <u>5.2M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.86</u>	Max NPS anode current (single crystal): <u>4.17</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3917</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>1:01</u> Stop time (from RC): <u>2:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.51M</u> hTRIG3 rate: <u>4.1K</u> hTRIG4 rate: <u>2.9K</u>	hTRIG5 rate: <u>2.5K</u> hTRIG6 rate: <u>1.8K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>15</u> $\mu$ A	Comments:		Events <u>6M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.84</u>	Max NPS anode current (single crystal): <u>4.2</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3918</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>2:02</u> Stop time (from RC): <u>3:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.5M</u> hTRIG3 rate: <u>4K</u> hTRIG4 rate: <u>2.8K</u>	hTRIG5 rate: <u>2.4K</u> hTRIG6 rate: <u>1.7K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>15</u> $\mu$ A	Comments:		Events <u>6M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.84</u>	Max NPS anode current (single crystal): <u>4.2</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3919</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3:06</u> Stop time (from RC): <u>3:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.1M</u> hTRIG3 rate: <u>2.6K</u> hTRIG4 rate: <u>1.9K</u>	hTRIG5 rate: <u>1.3K</u> hTRIG6 rate: <u>910</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>10</u> $\mu$ A	Comments:		Events <u>2.1M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.84</u>	Max NPS anode current (single crystal): <u>4.2</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

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

Date: 24/1/27  
yy mm dd

Initials: AP

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>: 10.538 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: +0 5.253 θ(TV): 16.93  
From GUI Nearest 0.005

θ(TV): 29.73  
Nearest 0.005

θ = SHMS  
-16.30° Nearest 0.005

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

Run Number: 3920

- 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): 3:49

Stop time (from RC): 4:33

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

hTRIG1 rate: 1.2 M

hTRIG3 rate: 1.4 K

hTRIG4 rate: 1.0 K

I<sub>beam</sub>: 5 μA

hTRIG5 rate: 400

hTRIG6 rate: 300

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 722 K  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA)

Run Number: 3921

- 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): 4:35

Stop time (from RC): 4:56

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

hTRIG1 rate: 2.1 M

hTRIG3 rate: 2.7 K

hTRIG4 rate: 1.9 K

I<sub>beam</sub>: 10 μA

hTRIG5 rate: 1.3 K

hTRIG6 rate: 900

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 2.3 M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA) 2.8

Run Number: 3922

- 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): 5:00

Stop time (from RC): 5:21

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

hTRIG1 rate: 2.4 M

hTRIG3 rate: 3.9 K

hTRIG4 rate: 2.7 K

I<sub>beam</sub>: 15 μA

hTRIG5 rate: 2.4 K

hTRIG6 rate: 1.7 K

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 15 min beam on

Events 334 K  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA) 3.7

Run Number: 3923

- 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): 5:39

Stop time (from RC): 6:40

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

hTRIG1 rate: 2.3 M

hTRIG3 rate: 3.5 K

hTRIG4 rate: 2.6 K

I<sub>beam</sub>: 35 μA

hTRIG5 rate: 1.9 K

hTRIG6 rate: 1.5 K

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: switched to LH2

Events 3.7 M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) (μA) 4.95



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

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

Date: 24/1/21  
 yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 50 31

**Purpose:**

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

HMS, field,  
current OK?

yes  no

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

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0.5253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 29.73  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 13.43  
-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 = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>3924</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>6:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 M</u>	hTRIG3 rate <u>3.4 K</u>	hTRIG4 rate <u>2.5 K</u>
I <sub>beam</sub> : <u>35</u> $\mu$ A	Stop time (from RC): <u>7:15</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1.8 K</u>	hTRIG6 rate <u>1.4 K</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Cut short after call from MCC beam down</u>			Events <u>2.4 M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8</u>	Max NPS anode current (single crystal) <u>5.3</u> ( $\mu$ A)	

Run Number: <u>3925</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>7:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3 M</u>	hTRIG3 rate <u>3.4 K</u>	hTRIG4 rate <u>2.6 K</u>
I <sub>beam</sub> : <u>35</u> $\mu$ A	Stop time (from RC): <u>7:44</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1.9 K</u>	hTRIG6 rate <u>1.4 K</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>~17 min beam</u>			Events <u>994 K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>5.3</u> ( $\mu$ A)	

Run Number: <u>3926</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>7:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5 M</u>	hTRIG3 rate <u>2 K</u>	hTRIG4 rate <u>1.5 K</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Stop time (from RC): <u>8:13</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>720</u>	hTRIG6 rate <u>550</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

Run Number: <u>3927</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>8:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.55 x 10<sup>5</sup></u>	hTRIG3 rate <u>1016</u>	hTRIG4 rate <u>764.2</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A	Stop time (from RC): <u>8:59</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>231.1</u>	hTRIG6 rate <u>174.3</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:			Events _____ Charge <u>94.07 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100 %</u>	Max NPS anode current (single crystal) <u>1.96</u> ( $\mu$ A)	

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

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

Date: 24/04/27  
yy mm dd

Initials: Y.G.

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>: 10.537 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: +5.253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 29.73  
Nearest 0.005

$\theta$  = SHMS 13.43  
-16.30° Nearest 0.005

Collimator:

HMS: Large   
Sieve

NPS Sweep Magnet  
I = 467 Amp

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

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

Run Number:

3928

- 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):

9:03

Stop time (from RC):

9:23

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.56x10<sup>6</sup>

hTRIG3 rate

1982

hTRIG4 rate

1516.5

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

hTRIG5 rate

762.5

hTRIG6 rate

561.6

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 1.7 M  
Charge 20.96 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3929

- 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):

9:28:20

Stop time (from RC):

9:43:21

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.34x10<sup>6</sup>

hTRIG3 rate

4024.1

hTRIG4 rate

2935.6

I<sub>beam</sub>: 40  $\mu$ A

hTRIG5 rate

2205.3

hTRIG6 rate

1707.6

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 260 K  
Charge 3051 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3930

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

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

Start time (from RC):

9:54:28

Stop time (from RC):

10:14:56

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.34x10<sup>6</sup>

hTRIG3 rate

3116.3

hTRIG4 rate

2093.2

I<sub>beam</sub>: 30  $\mu$ A

hTRIG5 rate

1672.1

hTRIG6 rate

1130.8

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 1.2 M  
Charge 2920 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3931

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

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

Start time (from RC):

10:17:26

Stop time (from RC):

10:38:49

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.71x10<sup>6</sup>

hTRIG3 rate

2082.3

hTRIG4 rate

1402.1

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

hTRIG5 rate

792.7

hTRIG6 rate

564.8

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Events 639 K  
Charge 22.02 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

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

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

Date: 24/01/27  
yy mm dd

Initials: Y.G.

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: 2x2

Beam position and angle on target:

**HMS**  
**p:** +0 5.253 **θ(TV):** 16.93  
From GUI Nearest 0.005

**SHMS**  
**θ(TV):** 29.73  
Nearest 0.005

**NPS**  
**θ = SHMS** 13.43  
**-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:** 3932  
**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): 10:50:41  
Stop time (from RC): 11:52:41

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.48 × 10<sup>6</sup> hTRIG3 rate: 4016.2 hTRIG4 rate: 2829.9  
hTRIG5 rate: 2380.2 hTRIG6 rate: 1703.2

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: \_\_\_\_\_ Events 6.1M Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA) \_\_\_\_\_ Charge 50.41C

**Run Number:** 3933  
**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): 11:53:  
Stop time (from RC): \_\_\_\_\_

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 0 hTRIG3 rate: 0 hTRIG4 rate: \_\_\_\_\_  
hTRIG5 rate: 0 hTRIG6 rate: 0

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: NO beam cosmic Events 1K Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA) \_\_\_\_\_ Charge C

**Run Number:** 3934  
**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: CODA issue Events \_\_\_\_\_ Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA) \_\_\_\_\_ Charge C  
didn't change start/stop time

**Run Number:** 3935  
**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): 12:54:38  
Stop time (from RC): 14:00:14

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 2.49 × 10<sup>6</sup> hTRIG3 rate: 4070.7 hTRIG4 rate: 2867.3  
hTRIG5 rate: 2390.9 hTRIG6 rate: 1762.5

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: \_\_\_\_\_ Events 6.2M Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) (μA) \_\_\_\_\_ Charge 49.2C  
99.83%

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

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

Date: 24/01/27  
yy mm dd

Initials: Y. G.

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>: 10.538 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: +0.5253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**

$\theta$ (TV): 29.73  
Nearest 0.005

**NPS**

$\theta$  = SHMS 13.43  
-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:**

3936

I<sub>beam</sub>: 15  $\mu$ 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):  
14:01:55

Stop time (from RC):  
15:05:12

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

hTRIG1 rate  
247x10<sup>6</sup>

hTRIG3 rate  
4013.3

hTRIG4 rate  
2895.1

hTRIG5 rate  
2465.5

hTRIG6 rate  
1723.5

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 62M  
Charge 50.16C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

**Run Number:**

3937

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

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

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

Start time (from RC):  
15:07

Stop time (from RC):  
16:15

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

hTRIG1 rate  
2.49x10<sup>6</sup>

hTRIG3 rate  
4001.6

hTRIG4 rate  
2832.5

hTRIG5 rate  
2422.1

hTRIG6 rate  
1762.3

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 6

Events 64M  
Charge 52.7C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

**Run Number:**

3938

I<sub>beam</sub>: 15  $\mu$ 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):  
16:12

Stop time (from RC):  
17:28

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

hTRIG1 rate  
2.48x10<sup>6</sup>

hTRIG3 rate  
4050

hTRIG4 rate  
2900

hTRIG5 rate  
2416

hTRIG6 rate  
1715

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 64M  
Charge 52.4C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

**Run Number:**

3939

I<sub>beam</sub>: 15  $\mu$ 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):  
17:29

Stop time (from RC):  
18:46

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

hTRIG1 rate  
2.48x10<sup>6</sup>

hTRIG3 rate  
4035

hTRIG4 rate  
2880

hTRIG5 rate  
2470

hTRIG6 rate  
1740

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 6.9M  
Charge 56.1M

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: 24 / 01 / 27  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 30-3'

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.537 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: +0.52530  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): -29.73  
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 <sup>down</sup> Upstream Corr. I = 0 Amp

**Run Number:**

3940

- 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):

18:47

Stop time (from RC):

19:30

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.07x10<sup>6</sup>

hTRIG3 rate

2720

hTRIG4 rate

1970

Data ok

Junk

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

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 2.4M  
Charge 24.2mC

Active trigger LiveTime fraction (NPS Scaler Gui)

99.93%

Max NPS anode current (single crystal)

2.93 ( $\mu$ A)

**Run Number:**

3941

- 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):

19:32

Stop time (from RC):

20:16

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.17x10<sup>6</sup>

hTRIG3 rate

1350

hTRIG4 rate

975

Data ok

Junk

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

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 0.7M  
Charge 12.4mC

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

1.72 ( $\mu$ A)

**Run Number:**

3942

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

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

Start time (from RC):

20:19

Stop time (from RC):

20:41

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.12x10<sup>6</sup>

hTRIG3 rate

2760

hTRIG4 rate

1925

Data ok

Junk

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

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 2.3M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

-

Max NPS anode current (single crystal)

2.84 ( $\mu$ A)

**Run Number:**

3943

- 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):

20:43

Stop time (from RC):

21:49

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.42x10<sup>6</sup>

hTRIG3 rate

4000

hTRIG4 rate

2811

Data ok

Junk

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

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

data rate ~ 80 MB/sec.

Events 1.2M  
Charge 52mC

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

4.10 ( $\mu$ A)

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

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

Date: 24/01/22  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 0-3"

E<sub>beam</sub>: 10.538 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>0.2</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**HMS**  
 p: 0.525  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.18  
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>3944</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:17</u> Stop time (from RC): <u>23:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.32x10<sup>6</sup></u> hTRIG5 rate: <u>1055</u>	hTRIG3 rate: <u>3460</u> hTRIG6 rate: <u>770</u>	hTRIG4 rate: <u>2550</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>35</u> $\mu$ A	Comments: <u>with 35 <math>\mu</math>A, data rate is ~30 MB/sec.</u>		Events <u>2.0M</u> Charge <u>127mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.9%</u>	Max NPS anode current (single crystal): <u>3.29</u> ( $\mu$ A)		

Run Number: <u>3945</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>23:29</u> Stop time (from RC): <u>0:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.33x10<sup>6</sup></u> hTRIG5 rate: <u>1050</u>	hTRIG3 rate: <u>3555</u> hTRIG6 rate: <u>825</u>	hTRIG4 rate: <u>2560</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>35</u> $\mu$ A	Comments:		Events <u>2.6M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.94%</u>	Max NPS anode current (single crystal): <u>3.82</u> ( $\mu$ A)		

Run Number: <u>3946</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0:32</u> Stop time (from RC): <u>0:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>685K</u> hTRIG5 rate: <u>360</u>	hTRIG3 rate: <u>1.9K</u> hTRIG6 rate: <u>280</u>	hTRIG4 rate: <u>1.4K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Events <u>346K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): <u>2.1</u> ( $\mu$ A)		

Run Number: <u>3947</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0:55</u> Stop time (from RC): <u>1:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>310K</u> hTRIG5 rate: <u>130</u>	hTRIG3 rate: <u>1.1K</u> hTRIG6 rate: <u>110</u>	hTRIG4 rate: <u>800</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:		Events <u>262K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): <u>1.4</u> ( $\mu$ A)		

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

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

Date: 24 / 1 / 28  
 yy mm dd

Initials: AP

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:

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

$p$ : +5.253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 33.18  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet  $I = \underline{408}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp NPS Upstream Corr.  $I = \underline{0}$  Amp

Run Number: <u>3948</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1:38</u> Stop time (from RC): <u>1:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>725 k</u>	hTRIG3 rate <u>2.0 k</u>	hTRIG4 rate <u>1.5 k</u>
$I_{beam}$ : <u>20</u> $\mu A$	Comments:			Events <u>1.7 M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.3</u> ( $\mu A$ )	

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>3949</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>2:01</u> Stop time (from RC): <u>2:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3 M</u>	hTRIG3 rate <u>4.0 k</u>	hTRIG4 rate <u>2.9 k</u>
$I_{beam}$ : <u>40</u> $\mu A$	Comments:			Events <u>88 k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.3</u> ( $\mu A$ )	

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>3950</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>2:39</u> Stop time (from RC): <u>2:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3 M</u>	hTRIG3 rate <u>4.0 k</u>	hTRIG4 rate <u>2.9 k</u>
$I_{beam}$ : <u>40</u> $\mu A$	Comments:			Events <u>166 k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.1</u> ( $\mu A$ )	

coin\_sparse   
 coin   
 coin\_sparse\_low

Run Number: <u>3951</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>3:12</u> Stop time (from RC): <u>3:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3 M</u>	hTRIG3 rate <u>3.2 k</u>	hTRIG4 rate <u>2.1 k</u>
$I_{beam}$ : <u>30</u> $\mu A$	Comments:			Events <u>730 k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.4</u> ( $\mu A$ )	

coin\_sparse   
 cin   
 cin\_sparse\_low



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

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

Date: 24/1/28  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

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

E<sub>beam</sub>: 10.839 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

SHMS

NPS

p: +10.6283  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 33.14  
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:

3952

I<sub>beam</sub>: 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):

3:42

Stop time (from RC):

4:04

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

800 K

hTRIG3 rate

2.1 K

hTRIG4 rate

1.4

hTRIG5 rate

410

hTRIG6 rate

290

- Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 344 K  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3953

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):

4:17

Stop time (from RC):

5:18

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

1.7 M

hTRIG3 rate

4.0 K

hTRIG4 rate

2.8 K

hTRIG5 rate

1.6 K

hTRIG6 rate

1.1 K

- Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: moved to LD2

Events 3.7 M  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3954

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):

5:19

Stop time (from RC):

6:33

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

1.8 M

hTRIG3 rate

4.1 K

hTRIG4 rate

2.9 K

hTRIG5 rate

1.6 K

hTRIG6 rate

1.1 K

- Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: ~15 min beam trip

Events 4.1 M  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

3955

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):

6:35

Stop time (from RC):

7:35

- Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate

1.7 M

hTRIG3 rate

4.1 K

hTRIG4 rate

2.9 K

hTRIG5 rate

1.6 K

hTRIG6 rate

1.1 K

- Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 3.6 M  
Charge 0 C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

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

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

Date: 24 / 1 / 26  
 yy mm dd

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

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>: 10.538 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +0 5.253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.18  
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  Small   
 NPS Sweep Magnet I = 468 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: 3956  
 I<sub>beam</sub>: 15  $\mu$ A

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

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

Start time (from RC): 7:36  
 Stop time (from RC): 8:43

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.7 M  
 hTRIG3 rate: 4.1 K  
 hTRIG4 rate: 2.9 K  
 hTRIG5 rate: 1.6 K  
 hTRIG6 rate: 1.1 K

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: 3957  
 I<sub>beam</sub>: 15  $\mu$ A

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

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

Start time (from RC): 8:45  
 Stop time (from RC): 9:20

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: BEAM DOWN > 20 MIN DATA IS OK BUT LOW

Events 9004 Charge \_\_\_\_\_ C

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

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

Run Number: 3958  
 I<sub>beam</sub>: 14  $\mu$ 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): 9:37  
 Stop time (from RC): \_\_\_\_\_

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.7 M  
 hTRIG3 rate: 3.97 K  
 hTRIG4 rate: 2.87 K  
 hTRIG5 rate: 1.5 K  
 hTRIG6 rate: 1.1 K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: ANOTHER ISSUE WITH THE MACHINE

Events 2.3 M Charge \_\_\_\_\_ C

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

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

Run Number: 3959  
 I<sub>beam</sub>: 15  $\mu$ A

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

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

Start time (from RC): 10:37  
 Stop time (from RC): 11:54

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.7 M  
 hTRIG3 rate: 3.97 K  
 hTRIG4 rate: 2.87 K  
 hTRIG5 rate: 1.5 K  
 hTRIG6 rate: 1.1 K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 1 EXTENDED A BIT TO COMPENSATE THE LAST RUNS

Events 5.4 M Charge \_\_\_\_\_ C

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

Max NPS anode current (single crystal) ( $\mu$ A) 2.75

# 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\_x50 3"**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.4 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: +05.253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 33.18  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

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

Run Number: <u>3960</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>11:57</u> Stop time (from RC): <u>12:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10</u> $\mu$ A					hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: PROBABLY CODA SCRIPT IS SHOWING WRONG CURRENT -> IS instead of 10

Events 1.4M Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 1.68 ( $\mu$ A)

Run Number: <u>3961</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>12:48</u> Stop time (from RC): <u>13:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.5M</u>	hTRIG3 rate <u>1.4K</u>	hTRIG4 rate <u>1K</u>
I <sub>beam</sub> : <u>5</u> $\mu$ A					hTRIG5 rate <u>0.2K</u>	hTRIG6 rate <u>0.2K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 3.63K Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number: <u>3962</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>0</u> PS6: <u>0</u>	Start time (from RC): <u>13:33</u> Stop time (from RC): <u>13:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>10</u> $\mu$ A					hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 2.4M Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number: <u>3963</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>14:00</u> Stop time (from RC): <u>14:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5M</u>	hTRIG3 rate <u>3.9K</u>	hTRIG4 rate <u>0.3K</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A					hTRIG5 rate <u>1.3K</u>	hTRIG6 rate <u>0.95K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: CODA DATA RATE ~ 50 MB/S

Events 2.19K Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 2.84 ( $\mu$ A)

I TOOK SOME EXTRA MINUTES DUE TO BEAM DOWN ~ 5 MIN

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

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

Date: 24/01/28  
yy mm dd

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

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>: 10.539 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +0.8853  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.18  
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>0.7</u> mm		<u>0.28</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>3964</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>14:40</u> Stop time (from RC): <u>15:45</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.4M</u> hTRIG5 rate: <u>0.9K</u>	hTRIG3 rate: <u>3.5K</u> hTRIG6 rate: <u>0.9K</u>	hTRIG4 rate: <u>2.6K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>35</u> $\mu$ A	Comments:		Events <u>2.5M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.68</u> ( $\mu$ A)		

Run Number: <u>3965</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>15:47</u> Stop time (from RC): <u>17:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.4M</u> hTRIG5 rate: <u>1K</u>	hTRIG3 rate: <u>3.4K</u> hTRIG6 rate: <u>0.8K</u>	hTRIG4 rate: <u>2.6K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>35</u> $\mu$ A	Comments:		Events <u>2.9M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.68</u> ( $\mu$ A)		

Run Number: <u>3966</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>17:02</u> Stop time (from RC): <u>17:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.7M</u> hTRIG5 rate: <u>0.4K</u>	hTRIG3 rate: <u>1.9K</u> hTRIG6 rate: <u>0.3K</u>	hTRIG4 rate: <u>1.5K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Events <u>0.35M</u> Charge <u>2.6C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.6%</u>	Max NPS anode current (single crystal) <u>2.2</u> ( $\mu$ A)		

Run Number: <u>3967</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>17:26</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>0.3M</u> hTRIG5 rate: <u>134</u>	hTRIG3 rate: <u>1K</u> hTRIG6 rate: <u>115</u>	hTRIG4 rate: <u>805</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:		Events <u>0.3M</u> Charge <u>25uC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.13</u> ( $\mu$ A)		

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

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

Date: 24 / 01 / 28  
yy mm dd

Initials: C.C.

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>: 10.538 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>0.28</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.523  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 33.18  
Nearest 0.005

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

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

Run Number: <u>3968</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: / PS2: / PS3: / PS4: 0 PS5: / PS6: /	Start time (from RC): <u>18:26</u> Stop time (from RC): <u>18:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.7M</u>	hTRIG3 rate <u>2K</u>	hTRIG4 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:	Events <u>1.9M</u> Charge <u>24nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.73 (uA)</u>
--	-----------	--	--	--

Run Number: <u>3969</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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: 3	Start time (from RC): <u>18:42</u> Stop time (from RC): <u>18:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.4M</u>	hTRIG3 rate <u>4K</u>	hTRIG4 rate <u>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:	Events <u>0.15M</u> Charge <u>32nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>4.29 (uA)</u>
--	-----------	---	--	--

Run Number: <u>3970</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>19:06</u> Stop time (from RC): <u>19:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3M</u>	hTRIG3 rate <u>3.1K</u>	hTRIG4 rate <u>2.1K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	----------------------------	----------------------------	----------------------------	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>0.6M</u> Charge <u>29nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>700%</u>	Max NPS anode current (single crystal) <u>— (uA)</u>
--	-----------	--	--	---

Run Number: <u>3971</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>19:27</u> Stop time (from RC): <u>19:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.78M</u>	hTRIG3 rate <u>2.1K</u>	hTRIG4 rate <u>1.4K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	-----------------------------	----------------------------	----------------------------	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>0.23M</u> Charge <u>24nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.26 (uA)</u>
--	-----------	---	--	--

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

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

Date: 24 / 01 / 28  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x $\phi$ -3"**

**Purpose:**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 10.532 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: +0.525  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): -33.18  
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: 3972  
 I<sub>beam</sub>: 15  $\mu$ 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): 20:00  
 Stop time (from RC): 21:07

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.75M  
 hTRIG3 rate: 4K  
 hTRIG4 rate: 2.8K  
 hTRIG5 rate: 1.5K  
 hTRIG6 rate: 1.1K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 4.1M  
 Charge 53mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.98%

Max NPS anode current (single crystal): 2.80 ( $\mu$ A)

Run Number: 3973  
 I<sub>beam</sub>: 15  $\mu$ 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): 21:07  
 Stop time (from RC): 22:19

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.75M  
 hTRIG3 rate: 4K  
 hTRIG4 rate: 2.8K  
 hTRIG5 rate: 1.5K  
 hTRIG6 rate: 1.1K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 3.7M  
 Charge 48mC

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

Max NPS anode current (single crystal): 2.72 ( $\mu$ A)

Run Number: 3974  
 I<sub>beam</sub>: 15  $\mu$ 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): 22:20  
 Stop time (from RC): \_\_\_\_\_

Settings Verified?  
 HV OK?  
 50k OK? NO

hTRIG1 rate: 1.75M  
 hTRIG3 rate: 4.1K  
 hTRIG4 rate: 2.9K  
 hTRIG5 rate: 1.5K  
 hTRIG6 rate: 1.1K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: There was problem with NPS crate 2 data.

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

Active trigger LiveTime fraction (NPS Scaler Gui): 99.79%

Max NPS anode current (single crystal): 2.92 ( $\mu$ A)

\* 3973  $\rightarrow$  junk as DAQ failed to load all its components.

Run Number: 3975  
 I<sub>beam</sub>: 15  $\mu$ 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): 22:47  
 Stop time (from RC): \_\_\_\_\_

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.75M  
 hTRIG3 rate: 4.1K  
 hTRIG4 rate: 2.9K  
 hTRIG5 rate: 1.5K  
 hTRIG6 rate: 1.1K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 3.8M  
 Charge 49mC

Active trigger LiveTime fraction (NPS Scaler Gui): 99.95%

Max NPS anode current (single crystal): 2.68 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

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

Date: 24 / 01 / 28  
 yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

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

E<sub>beam</sub>: 10.538 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>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
 p: +0.5253 θ(TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): -33.18  
Nearest 0.005

**NPS**  
 θ = SHMS -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

4

**Run Number:** 3977  
 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): 23:54  
 Stop time (from RC): 0:54

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.74M hTRIG3 rate: 3.9K hTRIG4 rate: 2.8K  
 hTRIG5 rate: 1.5K hTRIG6 rate: 1.1K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 3.7M Active trigger LiveTime fraction (NPS Scaler Gui) 99.95% Max NPS anode current (single crystal) 2.83(μA)  
 Charge C

5

**Run Number:** 3978  
 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: 0

Start time (from RC): 0:56  
 Stop time (from RC): 1:50

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.8M hTRIG3 rate: 4.1K hTRIG4 rate: 2.9K  
 hTRIG5 rate: 1.6K hTRIG6 rate: 1.1K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 3.7M Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 2.8 (μA)  
 Charge C

6

**Run Number:** 3979  
 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: 0

Start time (from RC): 1:57  
 Stop time (from RC): 2:59

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.7M hTRIG3 rate: 4.1K hTRIG4 rate: 2.9K  
 hTRIG5 rate: 1.6K hTRIG6 rate: 1.1K

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

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

Events 3.8M Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) 2.9 (μA)  
 Charge C

**Run Number:** 3980  
 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: -1 PS5: -1 PS6: 0

Start time (from RC): 3:01  
 Stop time (from RC): 3:02

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: incorrect CODA comment re-starting (said 15 μA)

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

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

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

Date: 24/1/20  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x50 3"**

**Purpose:**

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

HMS, field, current OK?  
yes  no

$E_{beam}$ : 10.538 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**  
 $p$ : +0.5253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.18  
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

<b>Run Number:</b> <u>3981</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2 M</u>	hTRIG3 rate <u>2.7 K</u>	hTRIG4 rate <u>2.0 K</u>
$I_{beam}$ : <u>10</u> $\mu A$			Stop time (from RC): <u>3:47</u>		hTRIG5 rate <u>130</u>	hTRIG6 rate <u>530</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>1.2 M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.0</u> ( $\mu A$ )		

<b>Run Number:</b> <u>3982</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>---</u>	hTRIG3 rate	hTRIG4 rate
$I_{beam}$ : <u>5</u> $\mu A$			Stop time (from RC): <u>4:36</u>		hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>415 K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.4</u> ( $\mu A$ )		

<b>Run Number:</b> <u>3983</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2 M</u>	hTRIG3 rate <u>2.7 K</u>	hTRIG4 rate <u>1.9 K</u>
$I_{beam}$ : <u>10</u> $\mu A$			Stop time (from RC): <u>5:01</u>		hTRIG5 rate <u>720</u>	hTRIG6 rate <u>540</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>2.3 M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.9</u> ( $\mu A$ )		

<b>Run Number:</b> <u>3894</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>5:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5 M</u>	hTRIG3 rate <u>4.0 K</u>	hTRIG4 rate <u>2.9 K</u>
$I_{beam}$ : <u>15</u> $\mu A$			Stop time (from RC): <u>5:06</u>		hTRIG5 rate <u>1.3 K</u>	hTRIG6 rate <u>950</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Run not appearing in Helog</u>		Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )		



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

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

Date: 24 / 1 / 29  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

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

E<sub>beam</sub>: 0.538 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**

**SHMS**

**NPS**

p: +/0 5.253  $\theta$ (TV): 16.93  
From GUI Nearest 0.005

$\theta$ (TV): 33.18  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

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

Run Number: <u>3985</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>5:09</u> Stop time (from RC): <u>5:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5 M</u> hTRIG5 rate <u>1.4 K</u>	hTRIG3 rate <u>4.0 K</u> hTRIG6 rate <u>960</u>	hTRIG4 rate <u>2.9 K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:		Events <u>155</u> K Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.0</u> ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3986</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>5:31</u> Stop time (from RC): <u>6:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.7 M</u> hTRIG5 rate <u>1.6 K</u>	hTRIG3 rate <u>4.1 K</u> hTRIG6 rate <u>1.1 K</u>	hTRIG4 rate <u>2.9 K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments: <u>extra LD2 runs</u>		Events <u>3.8</u> M Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.6</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3987</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>6:33</u> Stop time (from RC): <u>7:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.7 M</u> hTRIG5 rate <u>1.5 K</u>	hTRIG3 rate <u>4.0 K</u> hTRIG6 rate <u>1.1 K</u>	hTRIG4 rate <u>2.9 K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:		Events <u>3.7</u> M Charge <u>    </u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.8</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>3988</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>7:34</u> Stop time (from RC): <u>8:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2 M</u> hTRIG5 rate <u>750</u>	hTRIG3 rate <u>2.8 K</u> hTRIG6 rate <u>550</u>	hTRIG4 rate <u>1.9 K</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments: <u>10 <math>\mu</math>A, running until Hall Access</u>		Events <u>1.1</u> M Charge <u>20</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.0</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

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

Date: 24 / 1 / 29  
 yy mm dd

Initials: MS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-5'**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.537 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>0.70</u> mm		<u>0.34</u> mm
Nomin:		Nomin:

**HMS**  
 p: +/- -4.637  $\theta$ (TV): 16.435  
From GUI Nearest 0.005

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

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

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 467 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 3989  
 I<sub>beam</sub>: 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):  
 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. Coda Crash

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

Run Number: 3990  
 I<sub>beam</sub>: 30  $\mu$ A

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

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

Start time (from RC): 12:57  
 Stop time (from RC): 13:04

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

hTRIG1 rate 2-10<sup>6</sup> hTRIG3 rate 5700 hTRIG4 rate 3757  
 hTRIG5 rate 2624 hTRIG6 rate 1754  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 641K Charge C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
 Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 3991  
 I<sub>beam</sub>: 38  $\mu$ A

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

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

Start time (from RC): 13:06  
 Stop time (from RC): 14:08

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

hTRIG1 rate 2.28-10<sup>6</sup> hTRIG3 rate 7234 hTRIG4 rate 4641  
 hTRIG5 rate 3812 hTRIG6 rate 2521  
 Data ok  
 Junk OK

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: testing 40  $\mu$ A  $\rightarrow$  38  $\mu$ A

Events 7.7m Charge 108 C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.63%  
 Max NPS anode current (single crystal) ( $\mu$ A) 5.64

Run Number: 3992  
 I<sub>beam</sub>: 38  $\mu$ A

- 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): 14:09  
 Stop time (from RC): 15:09

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

hTRIG1 rate 2.24-10<sup>6</sup> hTRIG3 rate 7177 hTRIG4 rate 4758  
 hTRIG5 rate 3861 hTRIG6 rate 2602  
 Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 8 m Charge 114 C  
 Active trigger LiveTime fraction (NPS Scaler Gui) 99.6%  
 Max NPS anode current (single crystal) ( $\mu$ A) 5.00

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

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

Date: 24/1/29  
yy mm dd

Initials: ML

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36-5'

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.536 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS

SHMS

NPS

$p$ : +/- -4.637  $\theta$ (TV): 16.435  
From GUI Nearest 0.005

$\theta$ (TV): 30.3  
Nearest 0.005

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

3H07A	X	Y
<u>1.69</u> mm		<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

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

Run Number: <u>3993</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>15:10</u> Stop time (from RC): <u>15:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.32 · 10<sup>6</sup></u> hTRIG5 rate: <u>1269</u>	hTRIG3 rate: <u>3790</u> hTRIG6 rate: <u>854</u>	hTRIG4 rate: <u>2526</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>1.1 M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.96%</u>	Max NPS anode current (single crystal) <u>2.88</u> ( $\mu$ A)
--	-----------------	--	---	---

Run Number: <u>3994</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>15:41</u> 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 checked="" type="checkbox"/> Junk
-------------------------	--	---	--	--	--	--	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>coin reset</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) _____	Max NPS anode current (single crystal) _____ ( $\mu$ A)
--	-----------------------------	---------------------------------	---	---

Run Number: <u>3995</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>15:45</u> Stop time (from RC): <u>15:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>5</u> hTRIG5 rate: <u>371</u>	hTRIG3 rate: <u>1980</u> hTRIG6 rate: <u>274</u>	hTRIG4 rate: <u>1307</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>Short run. beam down</u>	Events <u>26K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) _____	Max NPS anode current (single crystal) _____ ( $\mu$ A)
--	---------------------------------------	--------------------------------------	---	---

Run Number: <u>3996</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:20</u> Stop time (from RC): <u>23:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>6.89 x 10<sup>5</sup></u> hTRIG5 rate: <u>370</u>	hTRIG3 rate: <u>1981</u> hTRIG6 rate: <u>260</u>	hTRIG4 rate: <u>1301</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>570K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.77</u> ( $\mu$ A)
--	-----------------	---------------------------------------	---	---

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

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

Date: 24/01/29  
yy mm dd

Initials: HA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 36.5'

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10539 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

HMS -4.837  
p: +0  $\theta$ (TV): 16.49  
From GUI Nearest 0.005

SHMS  $\theta$ (TV): -30.30  
Nearest 0.005

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

3H07A	X	Y
<u>1701</u>	mm	mm
Nomin:		Nomin:
3H07C	X	Y
mm		mm
Nomin:		Nomin:

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 46.37 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>3997</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:10</u> Stop time (from RC): <u>23:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>138 x 10<sup>9</sup></u> hTRIG3 rate: <u>3190</u> hTRIG4 rate: <u>2567</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Events <u>253M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.61</u> ( $\mu$ A)	

Run Number: <u>3998</u>	<input checked="" type="checkbox"/> LH2 10cm <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>3</u>	Start time (from RC): <u>23:35</u> Stop time (from RC): <u>23:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.21 x 10<sup>6</sup></u> hTRIG3 rate: <u>7700</u> hTRIG4 rate: <u>5025</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments: <u>hTRIG [3-6] Rates</u> <u>cooks wired</u>		Events <u>422k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

Run Number: <u>3999</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>13:43:15</u> Stop time (from RC): <u>13:47:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.24 x 10<sup>6</sup></u> hTRIG3 rate: <u>6880</u> hTRIG4 rate: <u>3937</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>30</u> $\mu$ A	Comments: <u>Tuned beam tripping</u>		Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)	

Run Number: <u>4000</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>13:52:33</u> Stop time (from RC): <u>14:12:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.24 x 10<sup>6</sup></u> hTRIG3 rate: <u>6880</u> hTRIG4 rate: <u>3937</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>30</u> $\mu$ A	Comments: <u>Data rate ~ 100 MB/s</u>		Events <u>2M</u> Charge <u>28.50M</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.86</u>	Max NPS anode current (single crystal) <u>8.34</u> ( $\mu$ A)	

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

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

Date: 24 / 11 / 30  
 yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-5'**

**Purpose:**

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

HMS, field,  
current OK?

yes  no

$E_{beam}$ : 10.539 GeV

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

Beam position and angle on target:

3H07A	X	Y
	<u>1.705</u> mm	<u>0.302</u> mm
	Nomin: <u>1.7</u>	Nomin: <u>0.3</u>
3H07C	X	Y
	<u>0.609</u> mm	<u>0.304</u> mm
	Nomin: <u>0.7</u>	Nomin: <u>0.3</u>

**HMS**

**SHMS**

**NPS**

$p$ : +04.637  $\theta$ (TV): 16.44  
From GUI Nearest 0.005

$\theta$ (TV): 30.90  
Nearest 0.005

$\theta$  = SHMS 14  
 $-16.30^\circ$  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:

4001

$I_{beam}$ : 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):

14:30:09

Stop time (from RC):

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$1.58 \times 10^6$

hTRIG3 rate

4541

hTRIG4 rate

2713

hTRIG5 rate

1600

hTRIG6 rate

974

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Data rate ~ 38 MB/s

Events 1.2M  
 Charge 24.7C

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

5.44 ( $\mu A$ )

Run Number:

4002

$I_{beam}$ : 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):

15:06:42

Stop time (from RC):

16:07

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$2.19 \times 10^6$

hTRIG3 rate

6718

hTRIG4 rate

4169

hTRIG5 rate

3400

hTRIG6 rate

2094

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Data rate ~ 100 MB/s

Events 6.5M  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.82%

Max NPS anode current (single crystal)

3.14 ( $\mu A$ )

Run Number:

4003

$I_{beam}$ : 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):

16:08

Stop time (from RC):

17:09

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$2.2 \times 10^6$

hTRIG3 rate

6865

hTRIG4 rate

4189

hTRIG5 rate

3440

hTRIG6 rate

2129

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 6.7M  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.78%

Max NPS anode current (single crystal)

3.24 ( $\mu A$ )

Run Number:

4004

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

Start time (from RC):

17:16

Stop time (from RC):

17:33

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

$1.68 \times 10^6$

hTRIG3 rate

4583

hTRIG4 rate

2800

hTRIG5 rate

1741

hTRIG6 rate

1092

Data ok

Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments:

Events 3.2M  
 Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

0

Max NPS anode current (single crystal)

1.99 ( $\mu A$ )

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

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

Date: 26/06/30  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 36-51

**Purpose:**

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

HMS, field, current OK?

yes  no

$E_{\text{beam}}$ : 10536 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1,702</u> mm		<u>0.298</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
 $p$ : +0.4637  $\theta$ (TV): 16.49  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.30  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.00  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet  $I = \underline{467.32}$  Amp  
NPS Upstream Corr.  $I = \underline{0}$  Amp  
NPS Upstream Corr.  $I = \underline{0}$  Amp

Run Number: <u>4005</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>17:34</u>	Stop time (from RC): <u>17:54</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	hTRIG5 rate	hTRIG6 rate	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---------------------------------------	--------------------------------------	---	-------------	-------------	-------------	-------------	-------------	--

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>NPS-Calo ch-952 is suspicious</u>	Events <u>1.6M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )
--	--	---------------------------------------	---	--

Run Number: <u>4006</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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):	Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate	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:	Events _____ Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ )
--	-----------	------------------------------	---	--

Run Number: <u>4007</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>18:20</u>	Stop time (from RC): <u>18:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.38 \times 10^6</math></u>	hTRIG3 rate <u>3462</u>	hTRIG4 rate <u>2537</u>	hTRIG5 rate <u>1220</u>	hTRIG6 rate <u>878</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>1.2M</u> Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu\text{A}$ ) <u>3.04</u>
--	-----------	------------------------------------	---	---

Run Number: <u>4008</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:42</u>	Stop time (from RC): <u>19:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u><math>1.38 \times 10^6</math></u>	hTRIG3 rate <u>3817</u>	hTRIG4 rate <u>2538</u>	hTRIG5 rate <u>1208</u>	hTRIG6 rate <u>846</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>2M</u> Charge _____	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:Runsheets\_dvcs\_NPS.pdf

Date: 29 / 01 / 30  
 yy mm dd

Initials: GA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 36-51

E<sub>beam</sub>: 10536 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: +0.632  $\theta$ (TV): 16.44  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.30  
Nearest 0.005

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

3H07A	X	Y
<u>1706</u> mm		<u>0307</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>07</u> mm		<u>05</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve   
 NPS Sweep Magnet I = 467.5 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>4009</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>19:12</u> Stop time (from RC): <u>20:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.18 x 10<sup>6</sup></u>	hTRIG3 rate <u>6688</u>	hTRIG4 rate <u>4104</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>6.8M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
-------------------------	--	---	---	---	---	----------------------------	----------------------------	--	--	-----------	---------------------------------------	---	---

Run Number: <u>4010</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>20:14</u> Stop time (from RC): <u>21:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.18 x 10<sup>6</sup></u>	hTRIG3 rate <u>6864</u>	hTRIG4 rate <u>4178</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>4.7M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
-------------------------	--	---	---	---	---	----------------------------	----------------------------	--	--	-----------	---------------------------------------	---	---

Run Number: <u>4011</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>21:24</u> Stop time (from RC): <u>22:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.19 x 10<sup>6</sup></u>	hTRIG3 rate <u>6894</u>	hTRIG4 rate <u>4172</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>7M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
-------------------------	--	---	---	---	---	----------------------------	----------------------------	--	--	-----------	-------------------------------------	---	---

Run Number: <u>4012</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>-6</u> PS6: <u>0</u>	Start time (from RC): <u>22:26</u> Stop time (from RC): <u>23:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.19 x 10<sup>6</sup></u>	hTRIG3 rate <u>6873</u>	hTRIG4 rate <u>4191</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>6.3M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
-------------------------	--	---	---	---	---	----------------------------	----------------------------	--	--	-----------	---------------------------------------	---	---

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

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

Date: 24, 06, 30  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36-51

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.536 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1,699</u> mm		<u>0,308</u> mm
Nomin:		Nomin:
3H07C	X	Y
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0 4.637  $\theta$ (TV): 16.44  
From GUI Nearest 0.005

$\theta$ (TV): 30.30  
Nearest 0.005

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

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 467.93 Amp NPS Upstream Corr. I = 0 Amp

Run Number:

4013

- 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):  
23:28

Stop time (from RC):  
00:08

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

hTRIG1 rate  
1,63x10<sup>6</sup>

hTRIG3 rate  
4542

hTRIG4 rate  
2746

I<sub>beam</sub>: 8  $\mu$ A

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 2.4M  
Charge 17.91 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.975%

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

Run Number:

4014

- 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):  
00:13

Stop time (from RC):  
00:59

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

hTRIG1 rate  
7.04x10<sup>5</sup>

hTRIG3 rate  
2799.7

hTRIG4 rate  
1735.5

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

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Added beam to account for beamtraps

Events 1M  
Charge 11.03 mC

Active trigger LiveTime fraction (NPS Scaler Gui)  
99.945%

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

Run Number:

4015

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

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

Start time (from RC):  
01:02

Stop time (from RC):  
01:23

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

hTRIG1 rate  
1.17x10<sup>6</sup>

hTRIG3 rate  
4583.7

hTRIG4 rate  
2777.3

I<sub>beam</sub>: 8  $\mu$ A

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 3.1M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)  
0.0%

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

Run Number:

4016

- 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):  
1:28

Stop time (from RC):  
1:43

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

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

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

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: data rate  $\approx$  100 kb/sec

Events 293K  
Charge 8.92 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

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



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

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

Date: <sup>24</sup> 10/31/11  
yy mm dd

Initials: CP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 36-5'**

**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 4.637  $\theta$ (TV): 16.44  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.30  
Nearest 0.005

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

3H07A	X	Y
1.72 mm		0.23 mm
Nomin:		Nomin:
3H07C	X	Y
0.65 mm		0.33 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: 4017	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 01:58 Stop time (from RC): 03:01	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.99 · 10 <sup>6</sup> hTRIG3 rate: 7264.9 hTRIG4 rate: 4776.0	hTRIG5 rate: 3961.4 hTRIG6 rate: 2676.8	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	--	---	---	---	---	--	---

coin\_sparse  coin  coin\_sparse\_low   
Comments: 1hr  
Events 8.2M Charge C  
Active trigger LiveTime fraction (NPS Scaler Gui) 96.747  
Max NPS anode current (single crystal) 5.64  $\mu$ A  
data rate ~ 125 MB/s

Run Number: 4018	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 03:02 Stop time (from RC): 04:09	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 1.98 · 10 <sup>6</sup> hTRIG3 rate: 7351.6 hTRIG4 rate: 4655.1	hTRIG5 rate: 3756.1 hTRIG6 rate: 2399.0	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	--	---	---	--	---	--	---

coin\_sparse  coin  coin\_sparse\_low   
Comments: 1hr  
Events 7.5M Charge 11.06 mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.745  
Max NPS anode current (single crystal) 5.52  $\mu$ A

Run Number: 4019	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 04:12 Stop time (from RC): 04:34	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 9.23 · 10 <sup>5</sup> hTRIG3 rate: 3810.5 hTRIG4 rate: 2502.8	hTRIG5 rate: 1217.0 hTRIG6 rate: 801.5	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	--	---	---	---	---	---	---

coin\_sparse  coin  coin\_sparse\_low   
Comments: 20 min  
Events 960K Charge 21.67 mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 99.956%  
Max NPS anode current (single crystal) 3.11  $\mu$ A  
121.68 mC

Run Number: 4020	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 04:36 Stop time (from RC): 05:23	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: 4.54 · 10 <sup>5</sup> hTRIG3 rate: 1960.3 hTRIG4 rate: 1309.9	hTRIG5 rate: 352.1 hTRIG6 rate: 270.9	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------	--	---	---	--	---	--	---

coin\_sparse  coin  coin\_sparse\_low   
Comments: 40 min + 2 for beam stop  
Events 590K Charge 21.67 mC  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 1.63  $\mu$ A

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

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

Date: 24/01/31  
yy mm dd

Initials: CAF

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x  $\frac{90}{2}-5$

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.536 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +0 4.637  $\theta$ (TV): 16.44  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.30  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14  
-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>4021</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:27</u> Stop time (from RC): <u>05:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.66 x 10<sup>5</sup></u>	hTRIG3 rate <u>3746.1</u>	hTRIG4 rate <u>2539.1</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>20 min</u>			Events <u>2.9M</u> Charge <u>21.88 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>2.99</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>4022</u>	<input checked="" type="checkbox"/> LH2 10cm <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>3</u>	Start time (from RC): <u>05:58</u> Stop time (from RC): <u>06:02</u>	<input type="checkbox"/> Settings Verified? <input 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
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments: <u>15 min MCC took beam</u> <u>data rate ~ 125 MB/s until 6:12</u>			Events <u>71K</u> Charge <u>5.58 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.99</u> ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>4023</u>	<input checked="" type="checkbox"/> LH2 10cm <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>3</u>	Start time (from RC): <u>6:17</u> Stop time (from RC): <u>6:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.02 · 10<sup>6</sup></u>	hTRIG3 rate <u>7598.9</u>	hTRIG4 rate <u>5028.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments: <u>combine w/ #4022</u> <u>for our 15 min</u>			Events <u>321K</u> Charge <u>24.52 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>5.86</u> ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>4024</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.i.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>6:38</u> Stop time (from RC): <u>6:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.69 · 10<sup>6</sup></u>	hTRIG3 rate <u>6815.1</u>	hTRIG4 rate <u>4030.2</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>30</u> $\mu$ A	Comments: <u>1st 1/2 of the 15 mins</u> <u>*(scheduled maintenance day)</u>			Events <u>741K</u> Charge <u>10.46 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.835%</u>	Max NPS anode current (single crystal) <u>8.44</u> ( $\mu$ 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: 24/01/31  
yy mm dd

Initials: AA

Use a separate sheet for each configuration.

Kinematics: KinC\_x 36-5'

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10539 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.72</u> mm	<u>0.29</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>	

HMS

SHMS

NPS

p: +0.4637  $\theta$ (TV): 16.44  
From GUI Nearest 0.005

$\theta$ (TV): 30.30  
Nearest 0.005

$\theta$  = SHMS 14.00  
-16.30° Nearest 0.005

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

Run Number: <u>4033</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>01:48</u>	Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.96x10<sup>6</sup></u>	hTRIG3 rate <u>6743.8</u>	hTRIG4 rate <u>3949.6</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A			Stop time (from RC): <u>2:02:27</u>		hTRIG5 rate <u>3584.8</u>	hTRIG6 rate <u>2090.2</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>Finishing ~10 min in combo w/ run 4024</u>		Events <u>1.6M</u> Charge <u>22.4C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.800%</u>	Max NPS anode current (single crystal) <u>8.72</u> ( $\mu$ A)		

Run Number: <u>4034</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>2:04:30</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.62x10<sup>6</sup></u>	hTRIG3 rate <u>4479</u>	hTRIG4 rate <u>2656</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>2:11:21</u>		hTRIG5 rate <u>1628</u>	hTRIG6 rate <u>985</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>Data rate ~ 40 MB/s Data taken for ~ 6 min.</u>		Events <u>0.38M</u> Charge <u>7.52C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.968%</u>	Max NPS anode current (single crystal) <u>5.84</u> ( $\mu$ A)		

Run Number: <u>4035</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>2:27:54</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.64x10<sup>6</sup></u>	hTRIG3 rate <u>4490</u>	hTRIG4 rate <u>2590</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>2:51:35</u>		hTRIG5 rate <u>1654</u>	hTRIG6 rate <u>933</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>Data rate ~ 40 MB/s.</u>		Events <u>1.18M</u> Charge <u>23.57C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.929%</u>	Max NPS anode current (single crystal) <u>5.02</u> ( $\mu$ A)		

Run Number: <u>4036</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3:04:17</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input type="checkbox"/>	hTRIG1 rate <u>2.25x10<sup>6</sup></u>	hTRIG3 rate <u>6853</u>	hTRIG4 rate <u>4237</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A			Stop time (from RC): <u>3:45:40</u>		hTRIG5 rate <u>3563</u>	hTRIG6 rate <u>2266</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> oin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Data rate ~ 123 MB/s. Data stopped as there was no beam.</u>		Events _____ Charge <u>1341C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.73%</u>	Max NPS anode current (single crystal) <u>3.32</u> ( $\mu$ A)		

# p(e,e'γ) p Run Sheet

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

Date: 24/02/01  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x36-5'**

**Purpose:**

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

HMS, field, current OK?

yes  no

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

Raster:  On  Off  
Size: 2 x 2 mm

Beam position and angle on target:

**HMS**  
p: 4.637 θ(TV): 16.44  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.30  
Nearest 0.005

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

3H07A	X	Y
1.708 mm		0.296 mm
Nomin: 1.7		Nomin: 0.3
3H07C	X	Y
0.708 mm		0.305 mm
Nomin: 0.7		Nomin: 0.3

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

Run Number: <u>4037</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>3:48:46</u> Stop time (from RC): <u>4:51:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.26 x 10<sup>6</sup></u> hTRIG5 rate: <u>3525</u>	hTRIG3 rate: <u>6868</u> hTRIG6 rate: <u>2223</u>	hTRIG4 rate: <u>2655</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12 μA</u>	Comments: <u>Data rate ~ 100 MB/s.</u>		Events <u>7.3M</u> Charge <u>39.11 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.729%</u>	Max NPS anode current (single crystal): <u>3.52 (μA)</u>		

Run Number: <u>4038</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>4:52:31</u> Stop time (from RC): <u>5:56:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.25 x 10<sup>6</sup></u> hTRIG5 rate: <u>3549</u>	hTRIG3 rate: <u>6955</u> hTRIG6 rate: <u>2242</u>	hTRIG4 rate: <u>4162</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12 μA</u>	Comments: <u>Data rate ~ 103 MB/s.</u>		Events <u>6.55M</u> Charge <u>35.48 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.82%</u>	Max NPS anode current (single crystal): <u>3.37 (μA)</u>		

Run Number: <u>4039</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>5:58:01</u> Stop time (from RC): <u>7:00:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.21 x 10<sup>6</sup></u> hTRIG5 rate: <u>3400</u>	hTRIG3 rate: <u>6684</u> hTRIG6 rate: <u>2085</u>	hTRIG4 rate: <u>3994</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12 μA</u>	Comments: <u>Data rate ~ 110 MB/s.</u>		Events <u>6.77M</u> Charge <u>36.58 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.175%</u>	Max NPS anode current (single crystal): <u>3.34 (μA)</u>		

Run Number: <u>4040</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>7:42:49</u> Stop time (from RC): <u>8:42:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.25 x 10<sup>6</sup></u> hTRIG5 rate: <u>3520</u>	hTRIG3 rate: <u>6817</u> hTRIG6 rate: <u>2196</u>	hTRIG4 rate: <u>4114</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12 μA</u>	Comments: <u>Data rate ~ 110 MB/s.</u>		Events <u>7M</u> Charge <u>37 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.79%</u>	Max NPS anode current (single crystal): <u>3.47 (μA)</u>		

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

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

Date: 24.02.01  
yy mm dd

Initials: Y.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x<sup>26</sup>-5'**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10539 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**

**SHMS**

**NPS**

p: +4.637  $\theta$ (TV): 16.44  
From GUI Nearest 0.005

$\theta$ (TV): 30.30  
Nearest 0.005

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

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 467 Amp NPS Upstream Corr. I = 0 Amp

Run Number:

4041

- 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):

8:44:45

Stop time (from RC):

9:46:28

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.22x10<sup>6</sup>

hTRIG3 rate

6332.7

hTRIG4 rate

4128.4

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

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Data rate 130 Mby/sec  
event rate 2.2 KHz

Events 4.1M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.77%

Max NPS anode current (single crystal) 3.33 ( $\mu$ A)

Run Number:

4042

- 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):

9:47:54

Stop time (from RC):

11:36:34

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.23x10<sup>6</sup>

hTRIG3 rate

6812.8

hTRIG4 rate

4118.3

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

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Data rate / CODA  
Event rate / ERROR

Events 4M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.74%

Max NPS anode current (single crystal) 3.29 ( $\mu$ A)

Run Number:

4043

- 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):

10:38:34

Stop time (from RC):

11:36:34

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.25x10<sup>6</sup>

hTRIG3 rate

6927.8

hTRIG4 rate

4231.4

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

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Data rate 130 Mby/sec  
Event rate = 2.3 KHz

Events 6.3M  
Charge 33.55 C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.732%

Max NPS anode current (single crystal) 3.33 ( $\mu$ A)

Run Number:

4044

- 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):

11:38:45

Stop time (from RC):

12:17:17

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.71x10<sup>6</sup>

hTRIG3 rate

4631.5

hTRIG4 rate

2789.5

I<sub>beam</sub>: 8  $\mu$ A

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: In pretext for dot to change the current from 12 to 8  $\mu$ A NOT a big problem :)

Events 2M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.873%

Max NPS anode current (single crystal) 2.38 ( $\mu$ A)

Data rate - 46 Mby/sec  
Event rate - 1.2 KHz

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

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

Date: 24/02/01  
yy mm dd

Initials: J. G.

Use a separate sheet for each configuration.

Kinematics: KinC\_x30-5'

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10537 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u>	mm	<u>0.36</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: -0.637  $\theta$ (TV): 16.40  
From GUI Nearest 0.005

$\theta$ (TV): 30.30  
Nearest 0.005

$\theta$  = SHMS 64  
-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: 4045  
I<sub>beam</sub>: 5  $\mu$ 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): 12:19:06 Stop time (from RC): 12:59:54

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 1M Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 4046  
I<sub>beam</sub>: 40  $\mu$ 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): 14:11:25 Stop time (from RC): \_\_\_\_\_

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate 1.67x10<sup>6</sup> hTRIG3 rate 3097 hTRIG4 rate 2397.2  
hTRIG5 rate 1588.4 hTRIG6 rate 1196.4

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: 2 min run CODA ERROR

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

Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) ( $\mu$ A)

Run Number: 4047  
I<sub>beam</sub>: 40  $\mu$ 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): 14:11:25 Stop time (from RC): \_\_\_\_\_

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate 1.67x10<sup>6</sup> hTRIG3 rate 3097 hTRIG4 rate 2397.2  
hTRIG5 rate 1588.4 hTRIG6 rate 1196.4

Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: Event rate 1.25 kHz Data rate 60 KB/sec

Events 1.2M Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 99.85% Max NPS anode current (single crystal) 4.28 ( $\mu$ 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 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

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

Date: 24/02/01  
yy mm dd

Initials: PRK

Use a separate sheet for each configuration.

Kinematics: KinC\_x60-3a

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>1.712</u> mm		<u>0.311</u> mm
Nomin: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>1.708</u> mm		<u>1.309</u> mm
Nomin: <u>1.7</u>		Nomin: <u>1.3</u>

HMS

SHMS

NPS

p: 5.8780  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

$\theta$ (TV): 33.015  
Nearest 0.005

$\theta$  = SHMS 16.715  
-16.30° Nearest 0.005

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

Run Number: <u>4048</u>	<input checked="" type="checkbox"/> LH2 10cm <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>18:17</u> Stop 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>2.2 MHz</u> hTRIG3 rate: <u>3.3 kHz</u> hTRIG4 rate: <u>2.46 kHz</u>	hTRIG5 rate: <u>1.64 kHz</u> hTRIG6 rate: <u>1305 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>(NPS Temperature still changing)</u> <u>Data Rate 65 MB/s</u>	Events <u>4.1M</u> Charge <u>126.6</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.95%</u>	Max NPS anode current (single crystal): <u>4.17</u> ( $\mu$ A)
--	---	---	--	--

Run Number: <u>4049</u>	<input checked="" type="checkbox"/> LH2 10cm <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>19:22</u> Stop time (from RC): <u>20:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.2 MHz</u> hTRIG3 rate: <u>3.2 kHz</u> hTRIG4 rate: <u>2408 Hz</u>	hTRIG5 rate: <u>1578 Hz</u> hTRIG6 rate: <u>1191 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>NPS Temp still changing</u> <u>DATA RATE 60 MB/s</u>	Events <u>3.8M</u> Charge <u>120.5</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.88%</u>	Max NPS anode current (single crystal): <u>4.35</u> ( $\mu$ A)
--	--	---	--	--

Run Number: <u>4050</u>	<input checked="" type="checkbox"/> LH2 10cm <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>20:31</u> Stop time (from RC): <u>21:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.2 MHz</u> hTRIG3 rate: <u>3230 Hz</u> hTRIG4 rate: <u>2440 Hz</u>	hTRIG5 rate: <u>1640 Hz</u> hTRIG6 rate: <u>1220 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>NPS Temp still changing</u> <u>Data Rate 60 MB/s</u>	Events <u>4.2M</u> Charge <u>134.4</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.94%</u>	Max NPS anode current (single crystal): <u>4.63</u> ( $\mu$ A)
--	--	---	--	--

Run Number: <u>4051</u>	<input checked="" type="checkbox"/> LH2 10cm <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>21:34</u> Stop time (from RC): <u>22:43</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.2 MHz</u> hTRIG3 rate: <u>3.2 kHz</u> hTRIG4 rate: <u>2.4 kHz</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"/> oin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>NPS Temp still changing</u> <u>Data Rate 60 MB/s</u>	Events <u>4.4M</u> Charge <u>140.4</u> $\mu$ C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.92%</u>	Max NPS anode current (single crystal): <u>4.26</u> ( $\mu$ A)
---	--	---	--	--

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

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

Date: 24, 02, 01  
yy mm dd

Initials: ERK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x603a**

**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>1.70</u> mm		<u>0.31</u> mm
Nomin: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>1.70</u> mm		<u>1.30</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

**HMS**  
p: +0.5, 9780  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 93.015  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 16.75  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 2.68 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4052</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2 MHz</u>	hTRIG3 rate <u>3.2 kHz</u>	hTRIG4 rate <u>2.4 kHz</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>23:50</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>NPS Temp still changing</u> <u>DATA RATE 60 MB/s</u>		Events <u>4.1M</u> Charge <u>135.9</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.865%</u>	Max NPS anode current (single crystal) <u>4.25</u> ( $\mu$ A)		

Run Number: <u>4053</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>23:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2 MHz</u>	hTRIG3 rate <u>3.3 kHz</u>	hTRIG4 rate <u>2.4 kHz</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>0:51</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>NPS Temp still changing</u> <u>DATA RATE 60 MB/s</u>		Events <u>3.6M</u> Charge <u>135.9</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.99%</u>	Max NPS anode current (single crystal) <u>4.38</u> ( $\mu$ A)		

Run Number: <u>4054</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2 M</u>	hTRIG3 rate <u>3.3 K</u>	hTRIG4 rate <u>2.5 K</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>1:05</u>		hTRIG5 rate <u>1.6 K</u>	hTRIG6 rate <u>1.2 K</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>NPS crate 2 down needs reboot</u>		Events <u>652 K</u> Charge <u>135.9</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.4</u> ( $\mu$ A)		

Run Number: <u>4055</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>1:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1 M</u>	hTRIG3 rate <u>3.3 K</u>	hTRIG4 rate <u>2.5 K</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A			Stop time (from RC): <u>2:15</u>		hTRIG5 rate <u>1.6 K</u>	hTRIG6 rate <u>1.1 K</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>3.3 M</u> Charge <u>135.9</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.4</u> ( $\mu$ A)		



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

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

Date: 24 / 2 / 2  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60 3a

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>1.7</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: +6 0.578  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

$\theta$ (TV): 33.015  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 408 Amp NPS Upstream Corr. I = 0 Amp

Run Number:

4056

- 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):

2:19

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.2M

hTRIG3 rate

1.6K

hTRIG4 rate

1.2K

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

Stop time (from RC):

2:40

hTRIG5 rate

470

hTRIG6 rate

380

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 440K  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) 2.3 ( $\mu$ A)

Run Number:

4057

- 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

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

550K

hTRIG3 rate

850

hTRIG4 rate

630

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

Stop time (from RC):

3:23

hTRIG5 rate

150

hTRIG6 rate

120

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 319K  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

4058

- 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):

3:25

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

hTRIG3 rate

hTRIG4 rate

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

Stop time (from RC):

hTRIG5 rate

hTRIG6 rate

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

immediate beam trip

Events 47K  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

4059

- 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):

3:37

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.2M

hTRIG3 rate

1.7K

hTRIG4 rate

1.2K

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

Stop time (from RC):

3:57

hTRIG5 rate

470

hTRIG6 rate

380

Data ok

Junk

coin\_sparse   
oin   
coin\_sparse\_low

Comments:

Events 1.6M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal) ( $\mu$ A) 2.4

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

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

Date: 24 / 2 / 2  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60 30**

**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>1.7</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 5.878  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

$\theta$ (TV): 33.015  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

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

Run Number: <u>4060</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>3:59</u> Stop time (from RC): <u>4:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.2 M</u> hTRIG3 rate: <u>1.6 K</u> hTRIG4 rate: <u>1.2 K</u>	hTRIG5 rate: <u>480</u> hTRIG6 rate: <u>370</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.4</u> ( $\mu$ A)		

Run Number: <u>4061</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>4:23</u> Stop time (from RC): <u>4:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.0 M</u> hTRIG3 rate: <u>3.2 K</u> hTRIG4 rate: <u>2.4 K</u>	hTRIG5 rate: <u>1.5 K</u> hTRIG6 rate: <u>1.1 K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:		Events <u>185 K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.2</u> ( $\mu$ A)		

Run Number: <u>4062</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>4:49</u> Stop time (from RC): <u>5:12</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: _____	hTRIG5 rate: _____ hTRIG6 rate: _____	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>30</u> $\mu$ A	Comments: <u>v15 mm beam on</u>		Events <u>715 K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) _____ ( $\mu$ A)		

Run Number: <u>4063</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>5:14</u> Stop time (from RC): <u>5:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.2 M</u> hTRIG3 rate: <u>1.6 K</u> hTRIG4 rate: <u>1.1 K</u>	hTRIG5 rate: <u>460</u> hTRIG6 rate: <u>330</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Events <u>305 K</u> Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.1</u> ( $\mu$ A)		

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

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

Date: 2024/02/02  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-3a

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 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>0.24</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.70</u> mm	<u>0.31</u> mm	
Nomin:	Nomin:	

HMS

SHMS

NPS

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

$\theta$ (TV): 33.02  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

Collimator:

HMS: Large  Sieve

NPS Sweep Magnet  $I$  = 968 Amp

NPS Upstream Corr.  $I$  = 0 Amp

NPS Upstream Corr.  $I$  = 0 Amp

Run Number:

4064

- 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):

18:55

Stop time (from RC):

20:00

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.29e+06

hTRIG3 rate

3178

hTRIG4 rate

2271

hTRIG5 rate

1668

hTRIG6 rate

1230

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4036839  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.865%

Max NPS anode current (single crystal)

3.05 ( $\mu$ A)

Run Number:

4065

- 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):

20:02

Stop time (from RC):

21:03

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.27e+06

hTRIG3 rate

3032

hTRIG4 rate

2246

hTRIG5 rate

1663

hTRIG6 rate

1167

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 413542  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.978%

Max NPS anode current (single crystal)

3.02 ( $\mu$ A)

Run Number:

4066

- 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):

21:05

Stop time (from RC):

22:07

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.27e+06

hTRIG3 rate

3115

hTRIG4 rate

2188

hTRIG5 rate

1627

hTRIG6 rate

1176

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 421437  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.959%

Max NPS anode current (single crystal)

2.99 ( $\mu$ A)

Run Number:

4067

- 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):

22:08

Stop time (from RC):

23:11

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.28e+06

hTRIG3 rate

3102

hTRIG4 rate

2243

hTRIG5 rate

1680

hTRIG6 rate

1213

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4305081  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

99.960%

Max NPS anode current (single crystal)

3.03 ( $\mu$ A)

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

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

Date: 24/02/02  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

Kinematics: KinC\_x 10 30

Purpose:

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

HMS, field, current OK?

yes  no

$E_{beam}$ : 10.538 GeV

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

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>0.70</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

$p$ : +/- -5.8780 (TV): 16.48  
From GUI Nearest 0.005

$\theta$  (TV): 33.02  
Nearest 0.005

$\theta$  = SHMS -16.30°  
Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 6 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4068</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>00:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.27e+06</u> hTRIG5 rate: <u>1707</u>	hTRIG3 rate: <u>3168</u> hTRIG6 rate: <u>1253</u>	hTRIG4 rate: <u>2300</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>39M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.805%</u>	Max NPS anode current (single crystal) <u>3.18 (uA)</u>
--	-----------	--------------------------------------	--	---

Run Number: <u>4069</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0:16</u> Stop time (from RC): <u>1:16</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> hTRIG5 rate: <u>1.6K</u>	hTRIG3 rate: <u>3.2K</u> hTRIG6 rate: <u>1.2K</u>	hTRIG4 rate: <u>2.2K</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>41M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.8 (uA)</u>
--	-----------	--------------------------------------	---	--

Run Number: <u>4070</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>1:21</u> Stop time (from RC): <u>2:01</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> hTRIG5 rate: <u>840</u>	hTRIG3 rate: <u>2.1K</u> hTRIG6 rate: <u>620</u>	hTRIG4 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:	Events <u>1.3M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.4 (uA)</u>
--	-----------	---------------------------------------	---	--

Run Number: <u>4071</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>2:04</u> Stop time (from RC): <u>2:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.4M</u> hTRIG5 rate: <u>500</u>	hTRIG3 rate: <u>1.6K</u> hTRIG6 rate: <u>380</u>	hTRIG4 rate: <u>1.1K</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>894K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>(uA)</u>
--	-----------	---------------------------------------	---	--

# p(e,e'γ) p Run Sheet

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

Date: 24/2/3  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

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

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

Raster:  On  Off  
Size: 272

**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**

**SHMS**

**NPS**

p: +0.5878 θ(TV): 16.480  
From GUI Nearest 0.005

θ(TV): 33.015  
Nearest 0.005

θ = SHMS  
-16.30° Nearest 0.005

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

Run Number: <u>4072</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8 M</u>	hTRIG3 rate <u>2.1 K</u>	hTRIG4 rate <u>1.5 K</u>
I <sub>beam</sub> : <u>10</u> μA	Stop time (from RC): <u>3:08</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>800</u>	hTRIG6 rate <u>600</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>1.8 M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA) <u>2.2</u>
--	-----------	--	---	---

Run Number: <u>4073</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>10</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>3:09</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8 M</u>	hTRIG3 rate <u>2.1 K</u>	hTRIG4 rate <u>1.5 K</u>
I <sub>beam</sub> : <u>10</u> μA	Stop time (from RC): <u>3:09</u>			<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	hTRIG5 rate	hTRIG6 rate	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Pre-scalers did not save correctly</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
--	--	---------------------------------	---	---

Run Number: <u>4074</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>3:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.8 M</u>	hTRIG3 rate <u>2.1 K</u>	hTRIG4 rate <u>1.5 K</u>
I <sub>beam</sub> : <u>10</u> μA	Stop time (from RC): <u>3:31</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>870</u>	hTRIG6 rate <u>620</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>2.5 M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA) <u>2.0</u>
--	-----------	--	---	---

Run Number: <u>4075</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>3</u> PS6: <u>3</u>	Start time (from RC): <u>3:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1 M</u>	hTRIG3 rate <u>3.1 K</u>	hTRIG4 rate <u>2.2 K</u>
I <sub>beam</sub> : <u>15</u> μA	Stop time (from RC): <u>3:50</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1.6 K</u>	hTRIG6 rate <u>1.1 K</u>	

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>1.9 K</u> Charge <u>C</u>	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: 24 / 2 / 3  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC** x 60 3b

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

HMS, field, current OK?  
 yes  no

$E_{beam}$ : 10.538 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 $p$ : +0.5878  $\theta(TV)$ : 16.480  
From GUI Nearest 0.005

**SHMS**  
 $\theta(TV)$ : 36.450  
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  $I =$  468 Amp  
 NPS Upstream Corr.  $I =$  0 Amp  
 NPS Upstream Corr.  $I =$  0 Amp

Run Number: <u>4076</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>4:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3k</u>	hTRIG3 rate <u>3.2k</u>	hTRIG4 rate <u>2.4k</u>
$I_{beam}$ : <u>40</u> $\mu A$			Stop time (from RC): <u>5:14</u>		hTRIG5 rate <u>960</u>	hTRIG6 rate <u>740</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>n30 min beam down due to PSD trip</u>			Events <u>1.1M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ )	

Run Number: <u>4077</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>5:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3M</u>	hTRIG3 rate <u>3.2k</u>	hTRIG4 rate <u>2.4k</u>
$I_{beam}$ : <u>40</u> $\mu A$			Stop time (from RC): <u>6:40</u>		hTRIG5 rate <u>980</u>	hTRIG6 rate <u>750</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>2.3M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ ) <u>2.9</u>	

Run Number: <u>4078</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>6:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3M</u>	hTRIG3 rate <u>3.3k</u>	hTRIG4 rate <u>2.5k</u>
$I_{beam}$ : <u>40</u> $\mu A$			Stop time (from RC): <u>7:11</u>		hTRIG5 rate <u>970</u>	hTRIG6 rate <u>770</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>combined w/ run 4076 makes 1hr data</u>			Events <u>1.2M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ ) <u>2.7</u>	

Run Number: <u>4079</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>7:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>560k</u>	hTRIG3 rate <u>1.6k</u>	hTRIG4 rate <u>1.2k</u>
$I_{beam}$ : <u>20</u> $\mu A$			Stop time (from RC): <u>7:36</u>		hTRIG5 rate <u>260</u>	hTRIG6 rate <u>210</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>263k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu A$ ) <u>2.0</u>	

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

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

Date: 24/2/3  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

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

E<sub>beam</sub>: 10.538 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

SHMS

NPS

p: +0.5.818  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

$\theta$ (TV): 36.450  
Nearest 0.005

$\theta$  = SHMS 20.15  
-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: <u>4080</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>7:36:06</u> Stop time (from RC): <u>8:20:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>250</u> k	hTRIG3 rate <u>850</u>	hTRIG4 rate <u>650</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:			Events _____ Charge <u>22.26</u> 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"/>						<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	

Run Number: <u>4081</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:23:43</u> Stop time (from RC): <u>8:44:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.86</u> $\times 10^5$	hTRIG3 rate <u>1678</u>	hTRIG4 rate <u>1217</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>Data rate ~ 26 MB/s</u>			Events <u>1.46</u> M Charge <u>22.7</u> 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"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	<u>1.74</u> ( $\mu$ A)

Run Number: <u>4082</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>8:46:29</u> Stop time (from RC): <u>9:08:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>5.68</u> $\times 10^5$	hTRIG3 rate <u>1660</u>	hTRIG4 rate <u>1284</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>Data rate ~ 34 MB/s</u>			Events <u>2.01</u> M Charge <u>22.8</u> 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"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	<u>1.98</u> ( $\mu$ A)

Run Number: <u>4083</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>9:13:05</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>1.1</u> $\times 10^6$	hTRIG3 rate <u>3245</u>	hTRIG4 rate <u>2424</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments: <u>Data rate ~ 32 MB/s</u>			Events _____ Charge <u>41.1</u> 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"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	<u>2.50</u> ( $\mu$ A)

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

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

Date: 24/2/3  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-36

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

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

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

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.5278  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.45  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 20.15  
-16.30° Nearest 0.005

3H07A	X	Y
	<u>1.7</u> mm	<u>0.3</u> mm
Nomin:	<u>1.7</u>	<u>0.3</u>
3H07C	X	Y
	<u>0.698</u> mm	<u>0.293</u> mm
Nomin:	<u>0.7</u>	<u>0.3</u>

**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>4084</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>9:43:04</u> Stop time (from RC): <u>9:59:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.08 x 10<sup>6</sup></u> hTRIG5 rate: <u>584</u>	hTRIG3 rate: <u>2398</u> hTRIG6 rate: <u>422</u>	hTRIG4 rate: <u>1617</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>Data rate ~ 13 MB/s</u>	Events <u>0.36 M</u> Charge <u>25.4 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.50</u> ( $\mu$ A)
--	--------------------------------------	--	---	---

Run Number: <u>4085</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>10:01:28</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>6.41 x 10<sup>5</sup></u> hTRIG5 rate: <u>265</u>	hTRIG3 rate: <u>1596</u> hTRIG6 rate: <u>198</u>	hTRIG4 rate: <u>1107</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>Data rate ~ 5 MB/s</u>	Events <u>0.22 M</u> Charge <u>19.6 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.07</u> ( $\mu$ A)
--	-------------------------------------	--	---	---

Run Number: <u>4086</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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: hTRIG5 rate:	hTRIG3 rate: hTRIG6 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>Connection lost in CODA.</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) _____ ( $\mu$ A)
--	---	--------------------------------	---	---

Run Number: <u>4087</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: hTRIG5 rate:	hTRIG3 rate: hTRIG6 rate:	hTRIG4 rate: <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-------------------------	---	--	---	--	------------------------------	------------------------------	--

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: <u>Connection lost in CODA.</u>	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:    /   /     
yy mm dd

Initials:    

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-36**

E<sub>beam</sub>: 10.528 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
	mm	mm
Nomin:	<u>1.7</u>	<u>0.3</u>
3H07C	X	Y
	mm	mm
Nomin:	<u>0.7</u>	<u>0.3</u>

**HMS**

**SHMS**

**NPS**

p: +13 5.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 36.45  
Nearest 0.005

$\theta$  = SHMS 20.15  
-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>4088</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>10:41:34</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>	hTRIG3 rate <u>4056</u>	hTRIG4 rate <u>2940</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>11:41:39</u>		hTRIG5 rate <u>1663</u>	hTRIG6 rate <u>1282</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Events 4.33M Active trigger LiveTime fraction (NPS Scaler Gui) 99.92% Max NPS anode current (single crystal) 2.47 ( $\mu$ A)  
Charge 64.8C

Run Number: <u>4089</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>11:42:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.93x10<sup>6</sup></u>	hTRIG3 rate <u>4201</u>	hTRIG4 rate <u>3004</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>12:18:20</u>		hTRIG5 rate <u>1762</u>	hTRIG6 rate <u>1310</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Events 2.04M Active trigger LiveTime fraction (NPS Scaler Gui) 99.901% Max NPS anode current (single crystal) 2.54 ( $\mu$ A)  
Charge 31.0C

Run Number: <u>4090</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>14:02:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.95x10<sup>6</sup></u>	hTRIG3 rate <u>4179</u>	hTRIG4 rate <u>3044</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>15:05:21</u>		hTRIG5 rate <u>1801</u>	hTRIG6 rate <u>1323</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Events 4M Active trigger LiveTime fraction (NPS Scaler Gui) 99.879% Max NPS anode current (single crystal) 2.51 ( $\mu$ A)  
Charge 58.98C

Run Number: <u>4091</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>15:06:30</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>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>15:25:23</u>		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Events \_\_\_\_\_ Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_ Max NPS anode current (single crystal) \_\_\_\_\_ ( $\mu$ A)  
Charge \_\_\_\_\_ C

beam lost !!!

# p(e,e'γ) p Run Sheet

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

Date: 24/02/03  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3h**

**Purpose:**

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

HMS, field, current OK?  
yes  no

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

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

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

**SHMS**  
θ(TV): -36.45  
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:		
3H07C	X	Y
<u>0.7</u> mm	<u>0.3</u> mm	
Nomin:		

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 4.18 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4092</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>17:09</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>0.9M</u> hTRIG5 rate: <u>1.8K</u>	hTRIG3 rate: <u>4.4K</u> hTRIG6 rate: <u>1.3K</u>	hTRIG4 rate: <u>3.0K</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>3.1M</u> Charge <u>47nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>97.85%</u>	Max NPS anode current (single crystal) <u>2.03</u> (μA)
--	-----------	--	---	---

Run Number: <u>4093</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>18:01</u> Stop time (from RC): <u>19:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9M</u> hTRIG5 rate: <u>1.7K</u>	hTRIG3 rate: <u>4.1K</u> hTRIG6 rate: <u>1.3K</u>	hTRIG4 rate: <u>3.0K</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>4.2M</u> Charge <u>64nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.85%</u>	Max NPS anode current (single crystal) <u>2.05</u> (μA)
--	-----------	--	---	---

Run Number: <u>4094</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>19:10</u> Stop time (from RC): <u>20:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9M</u> hTRIG5 rate: <u>1.7K</u>	hTRIG3 rate: <u>4.1K</u> hTRIG6 rate: <u>1.2K</u>	hTRIG4 rate: <u>3.0K</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>4.2</u> Charge <u>65nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.92%</u>	Max NPS anode current (single crystal) <u>2.47</u> (μA)
--	-----------	---	---	---

4095 → ~~4100~~ → Junk due to DAQ issues.

Run Number: <u>4101</u> <del>4096</del>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>20:51</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>1.5M</u> hTRIG5 rate: <u>1.0K</u>	hTRIG3 rate: <u>3.1K</u> hTRIG6 rate: <u>740</u>	hTRIG4 rate: <u>2.3K</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>1.8M</u> Charge <u>35nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.98%</u>	Max NPS anode current (single crystal) <u>2.12</u> (μA)
--	-----------	--	---	---

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

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

Date: 24/02/03  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

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

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

Raster:  On  Off  
Size: 2x2 mm

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

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +0.5787  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): -36.45  
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:		
3H07C	X	Y
	<u>0.7</u> mm	<u>0.3</u> mm
Nomin:		

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 6.48 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>4102</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>21:35</u> Stop time (from RC): <u>22:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1M</u> hTRIG5 rate: <u>480</u>	hTRIG3 rate: <u>2K</u> hTRIG6 rate: <u>345</u>	hTRIG4 rate: <u>1.5K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:		Events <u>0.9M</u> Charge <u>24mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal): <u>1.92</u> ( $\mu$ A)		

Run Number: <u>4103</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: / PS2: / PS3: / PS4: 0 PS5: / PS6: /	Start time (from RC): <u>22:19</u> Stop time (from RC): <u>22:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.9M</u> hTRIG5 rate: <u>480</u>	hTRIG3 rate: <u>2.1K</u> hTRIG6 rate: <u>350</u>	hTRIG4 rate: <u>1.5K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:		Events <u>2.1M</u> Charge <u>13mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>-</u>	Max NPS anode current (single crystal): <u>1.76</u> ( $\mu$ A)		

Run Number: <u>4104</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: / PS2: / PS3: 0 PS4: / PS5: / PS6: /	Start time (from RC): <u>22:43</u> Stop time (from RC): <u>23:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1M</u> hTRIG5 rate: <u>490</u>	hTRIG3 rate: <u>2.1K</u> hTRIG6 rate: <u>380</u>	hTRIG4 rate: <u>1.5K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:		Events <u>2.5M</u> Charge <u>12mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>-</u>	Max NPS anode current (single crystal): <u>1.88</u> ( $\mu$ A)		

Run Number: <u>4105</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 3	Start time (from RC): <u>23:07</u> Stop time (from RC): <u>23:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.7M</u> hTRIG5 rate: <u>1.6K</u>	hTRIG3 rate: <u>4.3K</u> hTRIG6 rate: <u>1.2K</u>	hTRIG4 rate: <u>3K</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Events <u>0.2M</u> Charge <u>19mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>2.41</u> ( $\mu$ 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: 24/02/03 Initials: C.G.  
yy mm dd

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

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

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

$E_{beam}$ : 10.528 GeV

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 $p$ : +0.5898  $\theta$ (TV): 16.40  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): -33.015  
Nearest 0.005

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

3H07A	X	Y
<u>17.</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

<b>Run Number:</b> <u>4106</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>23:33</u> Stop time (from RC): <u>0:35</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>2.4K</u>	hTRIG4 rate <u>1.8K</u>
$I_{beam}$ : <u>40 <math>\mu</math>A</u>	Comments:		Events <u>3.9M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>4.53 <math>\mu</math>A</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

<b>Run Number:</b> <u>4107</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0:37</u> Stop time (from RC): <u>1:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2M</u>	hTRIG3 rate <u>3.3K</u>	hTRIG4 rate <u>2.4K</u>
$I_{beam}$ : <u>40 <math>\mu</math>A</u>	Comments:		Events <u>3.5M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>4.3 <math>\mu</math>A</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

<b>Run Number:</b> <u>4108</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>1:44</u> Stop time (from RC): <u>2:06</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>1.6K</u>	hTRIG4 rate <u>1.2K</u>
$I_{beam}$ : <u>20 <math>\mu</math>A</u>	Comments:		Events <u>458K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>2.4 <math>\mu</math>A</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

<b>Run Number:</b> <u>4109</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>2:11</u> Stop time (from RC): <u>2:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>540K</u>	hTRIG3 rate <u>820</u>	hTRIG4 rate <u>630</u>
$I_{beam}$ : <u>10 <math>\mu</math>A</u>	Comments:		Events <u>305K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8%</u>	Max NPS anode current (single crystal) <u>2.0 <math>\mu</math>A</u>		
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>							

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

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

Date: 24 / 2 / 4  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60 36**

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

**SHMS**

**NPS**

p: +10 5.878  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

$\theta$ (TV): 33.015  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 408 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4110</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.2M</u>	hTRIG3 rate <u>1.0K</u>	hTRIG4 rate <u>1.2K</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>3:16</u>		hTRIG5 rate <u>480</u>	hTRIG6 rate <u>350</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>1.5M</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.4</u> ( $\mu$ A)
	Charge <u>C</u>		

Run Number: <u>4111</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.0M</u>	hTRIG3 rate <u>3.3K</u>	hTRIG4 rate <u>2.5K</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:		Stop time (from RC): <u>3:39</u>		hTRIG5 rate <u>1.5K</u>	hTRIG6 rate <u>1.1K</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"/>	Events <u>200K</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.3</u> ( $\mu$ A)
	Charge <u>C</u>		

Run Number: <u>4112</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>3:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.0M</u>	hTRIG3 rate <u>2.5K</u>	hTRIG4 rate <u>1.7K</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A	Comments:		Stop time (from RC): <u>4:06</u>		hTRIG5 rate <u>1.1K</u>	hTRIG6 rate <u>720</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>760K</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>5.7</u> ( $\mu$ A)
	Charge <u>C</u>		

Run Number: <u>4113</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>4:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.3M</u>	hTRIG3 rate <u>1.6K</u>	hTRIG4 rate <u>1.1K</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>4:31</u>		hTRIG5 rate <u>480</u>	hTRIG6 rate <u>330</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>349K</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.0</u> ( $\mu$ A)
	Charge <u>C</u>		

# p(e,e'γ) p Run Sheet

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

Date: 24 / 2 / 4  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

Kinematics: KinC\_x @ 3a

E<sub>beam</sub>: 10.538 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

SHMS

NPS

p: +0.5878 θ(TV): 16.480  
From GUI Nearest 0.005

θ(TV): 33.015  
Nearest 0.005

θ = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
NPS Sweep Magnet I = 40.5 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>4114</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>4:46</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>3.2K</u>	hTRIG4 rate <u>2.3K</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC): <u>5:51</u>		hTRIG5 rate <u>1.7K</u>	hTRIG6 rate <u>1.2K</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>4.3M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.0</u> (μA)
--	-----------	---------------------------------------	---	--

Run Number: <u>4115</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>6:01</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>3.1K</u>	hTRIG4 rate <u>2.3K</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC): <u>7:00</u>		hTRIG5 rate <u>1.7K</u>	hTRIG6 rate <u>1.2K</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>4.6M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.1</u> (μA)
--	-----------	---------------------------------------	---	--

Run Number: <u>4116</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>0</u>	Start time (from RC): <u>7:01:43</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>3.1K</u>	hTRIG4 rate <u>2.3K</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC): <u>8:02:19</u>		hTRIG5 rate <u>1.6K</u>	hTRIG6 rate <u>1.2K</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>Data rate ~ 65 MB/s.</u>	Events <u>4M</u> Charge <u>42.4C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.68%</u>	Max NPS anode current (single crystal) <u>2.9</u> (μA)
--	--	---	---	--

Run Number: <u>4117</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>4</u> PS6: <u>0</u>	Start time (from RC): <u>8:03:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.28x10<sup>6</sup></u>	hTRIG3 rate <u>3150</u>	hTRIG4 rate <u>2305</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC): <u>9:03:45</u>		hTRIG5 rate <u>1680</u>	hTRIG6 rate <u>1245</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>Data rate ~ 67 MB/s.</u>	Events <u>4M</u> Charge <u>49.15C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.926%</u>	Max NPS anode current (single crystal) <u>3.01</u> (μA)
--	--	--	--	---

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

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

Date: 24/21/4  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

Kinematics: KinC\_x60-3a

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

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

Purpose:

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

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
	<u>1.701</u> mm	<u>0.296</u> mm
Nomin:	<u>1.7</u>	<u>0.3</u>
3H07C	X	Y
	<u>0.699</u> mm	<u>0.299</u> mm
Nomin:	<u>0.7</u>	<u>0.3</u>

HMS

SHMS

NPS

p: +05.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 33.02  
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:

4118

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

9:04:53

Stop time (from RC):

10:04:48

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.24x10<sup>6</sup>

hTRIG5 rate

1682

hTRIG3 rate

3066

hTRIG6 rate

1198

hTRIG4 rate

2277

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Data rate ~ 67 MB/s.

Events 4M

Charge 40.46 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

99.89%

Max NPS anode current (single crystal)

2.98 ( $\mu$ A)

Run Number:

4119

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

10:05:46

Stop time (from RC):

11:04:02

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.28x10<sup>6</sup>

hTRIG5 rate

1699

hTRIG3 rate

3199

hTRIG6 rate

1246

hTRIG4 rate

2289

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Data rate ~ 65 MB/s.

Events 4M

Charge 40.26 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

99.94%

Max NPS anode current (single crystal)

2.99 ( $\mu$ A)

Run Number:

4120

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):

11:06:46

Stop time (from RC):

11:50:01

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.77x10<sup>6</sup>

hTRIG5 rate

853

hTRIG3 rate

2140

hTRIG6 rate

615

hTRIG4 rate

1527

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Data rate ~ 25 MB/s

Events 1.4M

Charge 22.96 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

2.41 ( $\mu$ A)

Run Number:

4121

I<sub>beam</sub>: 7.5  $\mu$ 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):

11:52:51

Stop time (from RC):

12:32:50

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.35x10<sup>6</sup>

hTRIG5 rate

504

hTRIG3 rate

1565

hTRIG6 rate

380

hTRIG4 rate

1109

Data ok

Junk

coin\_sparse

coin

coin\_sparse\_low

Comments:

Data rate ~ 13 MB/s.

Events 0.82

Charge 16.19 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

100%

Max NPS anode current (single crystal)

2.09 ( $\mu$ A)

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

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

Date: 24/2/4  
yy/mm/dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-30**

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

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

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

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

Beam position and angle on target:

**HMS**  
 p: +0 5.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.02  
Nearest 0.005

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

3H07A	X	Y
<u>1.701</u> mm		<u>0.307</u> mm
Nomin: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>0.704</u> mm		<u>0.297</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

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

**Run Number:** 4122  
**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): 12:34:57  
 Stop time (from RC): 12:56:15

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.78 x 10<sup>6</sup>  
 hTRIG3 rate: 2159  
 hTRIG4 rate: 1584  
 hTRIG5 rate: 903  
 hTRIG6 rate: 652

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: Data rate ~ 55 MB/s.

Events 1.7M  
 Charge 1.09C

Active trigger LiveTime fraction (NPS Scaler Gui): 0%  
 Max NPS anode current (single crystal): 2.28 ( $\mu$ A)

**Run Number:** 4123  
**I<sub>beam</sub>:** 15  $\mu$ A

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): 12:59:26  
 Stop time (from RC): 13:16:22

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.12 x 10<sup>6</sup>  
 hTRIG3 rate: 3177  
 hTRIG4 rate: 2222  
 hTRIG5 rate: 1543  
 hTRIG6 rate: 1098

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: Data rate ~ 55 MB/s.

Events 0.2M  
 Charge 13.36C

Active trigger LiveTime fraction (NPS Scaler Gui): 100%  
 Max NPS anode current (single crystal): 2.95 ( $\mu$ A)

**Run Number:** 4124  
**I<sub>beam</sub>:** 15  $\mu$ 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): 13:57:08  
 Stop time (from RC): 14:59:39

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.28 x 10<sup>6</sup>  
 hTRIG3 rate: 3116  
 hTRIG4 rate: 2251  
 hTRIG5 rate: 1690  
 hTRIG6 rate: 1198

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: Data rate ~ 60 MB/s.

Events 3.6M  
 Charge 13.18C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.892%  
 Max NPS anode current (single crystal): 2.65 ( $\mu$ A)

**Run Number:** 4125  
**I<sub>beam</sub>:** 15  $\mu$ 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): 15:01:43  
 Stop time (from RC): 16:

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.27 x 10<sup>6</sup>  
 hTRIG3 rate: 3125  
 hTRIG4 rate: 2246  
 hTRIG5 rate: 1626  
 hTRIG6 rate: 1229

Data ok  
 Junk

coin\_sparse   
 in   
 in\_sparse\_low

Comments: Data rate ~ 60 MB/s.

Events 3.4M  
 Charge 48.5C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.91%  
 Max NPS anode current (single crystal): 2.87 ( $\mu$ A)



# p(e,e'γ) p Run Sheet

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

Date: 24/07/04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3a**

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

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

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

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: +105.878 (TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 33.02  
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:		
3H07C	X	Y
<u>0.7</u> mm		<u>0.3</u> 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: <u>4126</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: / PS2: / PS3: / PS4: / PS5: / PS6: 0	Start time (from RC): <u>16:03</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>2.28x10<sup>6</sup></u> hTRIG3 rate: <u>3.1K</u> hTRIG4 rate: <u>2.2K</u>	hTRIG5 rate: <u>1.6K</u> hTRIG6 rate: <u>1.2K</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	---	--	--	---	---	--	--

coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
 Events 1.6M Active trigger LiveTime fraction (NPS Scaler Gui) 99.8% Max NPS anode current (single crystal) 3.02 (μA)  
 Charge 214 C

Run Number: <u>4127</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>16:39</u> Stop time (from RC): <u>17:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.3M</u> hTRIG3 rate: <u>3.2K</u> hTRIG4 rate: <u>2.4K</u>	hTRIG5 rate: <u>940</u> hTRIG6 rate: <u>735</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	--	---	---	--	--	---

coin\_sparse  coin  coin\_sparse\_low   
 Comments: orbit locus were off. beam dimpled.  
 Events 1.7M Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 2.72 (μA)  
 Charge C

Run Number: <u>4128</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>17:28</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>1.3M</u> hTRIG3 rate: <u>3.2K</u> hTRIG4 rate: <u>2.4K</u>	hTRIG5 rate: <u>960</u> hTRIG6 rate: <u>740</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	--	---	---	--	--	--

coin\_sparse  coin  coin\_sparse\_low   
 Comments: Data rate ~ 28MB/s.  
 Events 2.4M Active trigger LiveTime fraction (NPS Scaler Gui) 100% Max NPS anode current (single crystal) 2.61 (μA)  
 Charge 294 C

Run Number: <u>4129</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>18:31</u> Stop time (from RC): <u>19:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.3M</u> hTRIG3 rate: <u>3.2K</u> hTRIG4 rate: <u>2.3K</u>	hTRIG5 rate: <u>980</u> hTRIG6 rate: <u>750</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	--	---	---	--	--	--

coin\_sparse  in  in\_sparse\_low   
 Comments: Stationary dump  
 Events 1.6M Active trigger LiveTime fraction (NPS Scaler Gui) 99.95% Max NPS anode current (single crystal) 2.71 (μA)  
 Charge 86 C

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

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

Date: 24/02/04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3b**

E<sub>beam</sub>: 10.576 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>6.7</u> mm		<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
p: +25.878  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.45  
Nearest 0.005

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

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 6.68 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4130</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>19:27</u> Stop time (from RC): <u>19:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.3M</u> hTRIG5 rate: <u>990</u>	hTRIG3 rate: <u>3.1K</u> hTRIG6 rate: <u>750</u>	hTRIG4 rate: <u>2.4K</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>0.6M</u> Charge <u>34mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.98%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>2.96</u>
-------------------------	--	--	---	--	---	---	---	--	-----------	--	--	--

Run Number: <u>4131</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>19:45</u> Stop time (from RC): <u>20:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.5M</u> hTRIG5 rate: <u>250</u>	hTRIG3 rate: <u>1.6K</u> hTRIG6 rate: <u>210</u>	hTRIG4 rate: <u>1.2K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>0.26M</u> Charge <u>23mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>1.45</u>
-------------------------	--	--	---	---	---	---	--	--	-----------	---	--	--

Run Number: <u>4132</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>20:07</u> Stop time (from RC): <u>20:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.25M</u> hTRIG5 rate: <u>104</u>	hTRIG3 rate: <u>870</u> hTRIG6 rate: <u>92</u>	hTRIG4 rate: <u>670</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>0.23M</u> Charge <u>23mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A): <u>1.79</u>
-------------------------	--	--	---	---	--	---	---	--	-----------	---	--	--

Run Number: <u>4133</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: / PS2: / PS3: / PS4: 0 PS5: / PS6: /	Start time (from RC): <u>20:55</u> Stop time (from RC): <u>21:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.6M</u> hTRIG5 rate: <u>272</u>	hTRIG3 rate: <u>1.6K</u> hTRIG6 rate: <u>230</u>	hTRIG4 rate: <u>1.2K</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:	Events <u>1.6M</u> Charge <u>25mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal) ( $\mu$ A): <u>1.89</u>
-------------------------	--	--	---	---	---	---	--	--	-----------	--	--	--

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

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

Date: 24 / 09 / 04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-36**

E<sub>beam</sub>: 10.5 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

SHMS

NPS

p: +05.878  $\theta$ (TV): 18.48  
From GUI Nearest 0.005

$\theta$ (TV): 36.45  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

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

Run Number: <u>4134</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="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>21:20</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1M</u>	hTRIG3 rate <u>3.2K</u>	hTRIG4 rate <u>2.3K</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments: <u>data rate ~ 30MB/sec.</u>			Events <u>0.1</u> Charge <u>33nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) -	Max NPS anode current (single crystal) ( $\mu$ A) -	
		Stop time (from RC): <u>21:20</u>	hTRIG5 rate <u>790</u>	hTRIG6 rate <u>615</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>data rate ~ 30MB/sec.</u>	Events <u>0.1</u> Charge <u>33nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) -	Max NPS anode current (single crystal) ( $\mu$ A) -
--	---	---	--	--

Run Number: <u>4135</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: <u>0</u>	Start time (from RC): <u>21:44</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.1M</u>	hTRIG3 rate <u>2.4K</u>	hTRIG4 rate <u>1.6K</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A	Comments:			Events <u>0.4M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>3.00</u>	
		Stop time (from RC): <u>22:06</u>	hTRIG5 rate <u>580</u>	hTRIG6 rate <u>410</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>0.4M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>3.00</u>
--	-----------	---------------------------------------	--	--

Run Number: <u>4136</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: <u>0</u>	Start time (from RC): <u>22:07</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>0.6M</u>	hTRIG3 rate <u>1.6K</u>	hTRIG4 rate <u>1.1K</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:			Events <u>0.23M</u> Charge <u>23nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.50</u>	
		Stop time (from RC): <u>22:19</u>	hTRIG5 rate <u>265</u>	hTRIG6 rate <u>185</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>0.23M</u> Charge <u>23nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.50</u>
--	-----------	---	--	--

Run Number: <u>4137</u>	<input type="checkbox"/> LH2 10cm <input checked="" 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: <u>0</u>	Start time (from RC): <u>22:40</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.9M</u>	hTRIG3 rate <u>4K</u>	hTRIG4 rate <u>3.0K</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:			Events <u>4.6M</u> Charge <u>70nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.91%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.49</u>	
		Stop time (from RC): <u>22:40</u>	hTRIG5 rate <u>1.8K</u>	hTRIG6 rate <u>1.3K</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:	Events <u>4.6M</u> Charge <u>70nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.91%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.49</u>
--	-----------	--	--	--

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

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

Date: 24/02/04  
yy mm dd

Initials: C.G.

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60\_3b**

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

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

$E_{beam}$ : 10.53 GeV

Raster:  On  Off  
 Size: 2x2mm

Beam position and angle on target:

**HMS**  
 $p$ : +0.5898  $\theta(TV)$ : 16.48  
From GUI Nearest 0.005

**SHMS**  
 $\theta(TV)$ : 36.45  
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  $I$  = 460 Amp  
 NPS Upstream Corr.  $I$  = 0 Amp  
 NPS Upstream Corr.  $I$  = 0 Amp

Run Number: <u>4138</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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>23:53</u> Stop time (from RC): <u>0:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9M</u> hTRIG5 rate: <u>1.8K</u>	hTRIG3 rate: <u>4.2K</u> hTRIG6 rate: <u>1.3K</u>	hTRIG4 rate: <u>3.0K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>20</u> $\mu A$	Comments:		Events <u>4.7M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.98</u>	Max NPS anode current (single crystal): <u>2.54</u> ( $\mu A$ )		

Run Number: <u>4139</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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): <u>0:58</u> Stop time (from RC): <u>1:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9M</u> hTRIG5 rate: <u>1.8K</u>	hTRIG3 rate: <u>4.1K</u> hTRIG6 rate: <u>1.3K</u>	hTRIG4 rate: <u>3.0K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>20</u> $\mu A$	Comments:		Events <u>4.4M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): <u>2.6</u> ( $\mu A$ )		

Run Number: <u>4140</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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): <u>2:02</u> Stop time (from RC): <u>3:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9M</u> hTRIG5 rate: <u>1.7K</u>	hTRIG3 rate: <u>4.1K</u> hTRIG6 rate: <u>1.3K</u>	hTRIG4 rate: <u>2.9K</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>20</u> $\mu A$	Comments:		Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): ( $\mu A$ )		

Run Number: <u>4141</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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): <u>3:04</u> Stop time (from RC): <u>4:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9M</u> hTRIG5 rate: <u>1.7K</u>	hTRIG3 rate: <u>4.1K</u> hTRIG6 rate: <u>1.3K</u>	hTRIG4 rate: <u>3.0K</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
$I_{beam}$ : <u>20</u> $\mu A$	Comments:		Events <u>4.2M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui):	Max NPS anode current (single crystal): <u>2.5</u> ( $\mu A$ )		

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

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

Date: 24 / 2 / 5  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60 3b

E<sub>beam</sub>: 10.530 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

SHMS

NPS

p: +0.5878  $\theta$ (TV): 10.48  
From GUI Nearest 0.005

$\theta$ (TV): 30.45  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 408 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4142</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>4:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.5M</u>	hTRIG3 rate <u>3.1K</u>	hTRIG4 rate <u>2.3K</u>
I <sub>beam</sub> : <u>15</u> $\mu$ A			Stop time (from RC): <u>4:47</u>		hTRIG5 rate <u>1.0K</u>	hTRIG6 rate <u>750</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>1.7M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.1</u> ( $\mu$ A)
--	-----------	---------------------------------------	---	---

Run Number: <u>4143</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>4:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>960K</u>	hTRIG3 rate <u>2.1K</u>	hTRIG4 rate <u>1.5K</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>5:30</u>		hTRIG5 rate <u>480</u>	hTRIG6 rate <u>370</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>840K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.8</u> ( $\mu$ A)
--	-----------	---------------------------------------	---	---

Run Number: <u>4144</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>5:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>980K</u>	hTRIG3 rate <u>2.1K</u>	hTRIG4 rate <u>1.5K</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>5:53</u>		hTRIG5 rate <u>500</u>	hTRIG6 rate <u>380</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 _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.0</u> ( $\mu$ A)
--	-----------	---------------------------------	---	---

Run Number: <u>4145</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>5:56</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>20</u> $\mu$ A			Stop time (from RC): <u>6:11</u>		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>1600K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.4</u> ( $\mu$ A)
--	-----------	--	---	---

1600K

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

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

Date: 24/2/5  
yy mm dd

Initials: AP

Use a separate sheet for each configuration.

Kinematics: KinC\_x(20 30)

$E_{beam}$ : 10.539 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  
 $p$ : +0.5878  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 33.015  
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>4146</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>6:33</u> Stop time (from RC): <u>7:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1 M</u> hTRIG5 rate <u>1.0 K</u>	hTRIG3 rate <u>3.1 K</u> hTRIG6 rate <u>1.2 K</u>	hTRIG4 rate <u>2.4 K</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>lots of beam trips ~40 min beam</u>	Events <u>2.2 M</u> Charge <u>33 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.1</u> ( $\mu$ A)
--	--	--	---	--

Run Number: <u>4147</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>8:00</u> Stop time (from RC): <u>9:00</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> hTRIG5 rate <u>1293</u>	hTRIG3 rate <u>2800</u> hTRIG6 rate <u>950</u>	hTRIG4 rate <u>2054</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>* 35 <math>\mu</math>A beam when I looked at scalers.</u>	Events <u>2.9 M</u> Charge <u>103 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2</u> ( $\mu$ A)
--	--	---	---	--

Run Number: <u>4148</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>9:01</u> Stop time (from RC): <u>9:22</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> hTRIG5 rate <u>458</u>	hTRIG3 rate <u>1621</u> hTRIG6 rate <u>382</u>	hTRIG4 rate <u>1264</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>405 k</u> Charge <u>22 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>2</u> ( $\mu$ A)
--	-----------	--	--	--

Run Number: <u>4149</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>9:23</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>539 kHz</u> hTRIG5 rate <u>155</u>	hTRIG3 rate <u>836</u> hTRIG6 rate <u>124</u>	hTRIG4 rate <u>650</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>261 k</u> Charge <u>18 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>1</u> ( $\mu$ A)
--	-----------	--	--	--

# p(e,e'γ) p Run Sheet

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

Date: 24, 02, 05  
yy mm dd

Initials: RM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3a**

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

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

E<sub>beam</sub>: 10,936 GeV

Raster:  On  Off  
 Size: 2 x 2 mm

Beam position and angle on target:

**HMS**  
 p: +16 5.8780 θ(TV): 16.480  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 33.02  
Nearest 0.005

**NPS**  
 θ = SHMS 16.72  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.70</u> mm		<u>,308</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>.70</u> mm		<u>,30</u> mm
Nomin:		Nomin:

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

Run Number: 4150 I<sub>beam</sub>: 20 μA  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1  
 Start time (from RC): 10:07 Stop time (from RC): 10:28  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 1.2 MHz hTRIG3 rate: 1600 hTRIG4 rate: 1248  
 hTRIG5 rate: 462 hTRIG6 rate: 450  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: ps4 = 0 1250 kHz trigger rate; 32 Mbyte/sec  
 Events 1.42 M Charge 22 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 1 (μA)

Run Number: 4151 I<sub>beam</sub>: 40 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): 10:32 Stop time (from RC): 10:48  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.1 MHz hTRIG3 rate: 3336 hTRIG4 rate: 2392  
 hTRIG5 rate: 1627 hTRIG6 rate: 1216  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 14 Mbyte/sec  
 Events 200 k Charge 32 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 2 (μA)

Run Number: 4152 I<sub>beam</sub>: 30 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): 11:02 Stop time (from RC): 11:21  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2 MHz hTRIG3 rate: 2359 hTRIG4 rate: 1589  
 hTRIG5 rate: 1050 hTRIG6 rate: 716  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: Dummy, coin\_sparse, 30 μA, ps6 = 0  
 Events 681 k Charge 28 mC Active trigger LiveTime fraction (NPS Scaler Gui) 99.59 Max NPS anode current (single crystal) 2 (μA)

Run Number: 4153 I<sub>beam</sub>: 20 μA  
 LH2 10cm  LD2 10cm  Dummy 10cm  Optics#1 8cm  C 0.5% r.l.l.  
 PS1: -1 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0  
 Start time (from RC): 11:22 Stop time (from RC): \_\_\_\_\_  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 1.31 MHz hTRIG3 rate: 1544 hTRIG4 rate: 1106  
 hTRIG5 rate: 461 hTRIG6 rate: 346  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: \_\_\_\_\_  
 Events 306 k Charge 18 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 Max NPS anode current (single crystal) 2 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 24/2/5  
yy mm dd

Initials: RM

Use a separate sheet for each configuration.

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

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

Raster:  On  Off  
Size: 2 x 2 mm

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

HMS, field,  
current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u> mm		<u>.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>.70</u> mm		<u>.29</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- 5.8780 θ(TV): 16.480  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 33.020  
Nearest 0.005

**NPS**  
θ = SHMS 16.72  
-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>4154</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>11:50</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>3152</u>	hTRIG4 rate <u>2251</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>13:02</u>		hTRIG5 rate <u>1615</u>	hTRIG6 rate <u>1202</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LD2 production</u> <u>Data rate 125 Mbyte/sec</u>		Events <u>6.5M</u> Charge <u>70mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>2</u> (μA)		

Run Number: <u>4155</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>13:35</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC):		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>CODA crash - no data</u>		Events <u>0</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)		

Run Number: <u>4156</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>13:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.5 MHz</u>	hTRIG3 rate <u>4201</u>	hTRIG4 rate <u>3060</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>14:44</u>		hTRIG5 rate <u>2507</u>	hTRIG6 rate <u>1829</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>Data rate 120 MByte/sec</u>		Events <u>6.5M</u> Charge <u>69mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.8</u>	Max NPS anode current (single crystal) <u>3</u> (μA)		

Run Number: <u>4157</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>14:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.5 MHz</u>	hTRIG3 rate <u>4117</u>	hTRIG4 rate <u>2947</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC):		hTRIG5 rate <u>2488</u>	hTRIG6 rate <u>1761</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:		Events <u>6.2M</u> Charge <u>66mC</u>	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: 24/2/5  
yy mm dd

Initials: nm

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3a**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: \_\_\_\_\_ GeV

Raster:  On  Off  
 Size: 2 x 2 mm

Beam position and angle on target:

**HMS**  
 p: +/- -5.7870  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.020  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 16.72  
-16.30°  
Nearest 0.005

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

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

Run Number: <u>4158</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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): <u>16:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.5 MHz</u>	hTRIG3 rate <u>4171</u>	hTRIG4 rate <u>2944</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <del>2.0</del> Charge <u>11.16<math>\mu</math>C</u> <u>5.7<math>\mu</math></u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>1</u> ( $\mu$ A)
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:											
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>												

Run Number: <u>4159</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>16:49</u>	Stop 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>2.25 MHz</u>	hTRIG3 rate <u>3097</u>	hTRIG4 rate <u>2290</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>2.4<math>\mu</math></u> Charge <u>29.94<math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>1</u> ( $\mu$ A)
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:											
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>												

Run Number: <u>4160</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>17:32</u>	Stop time (from RC): <u>18:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.73 MHz</u>	hTRIG3 rate <u>2047</u>	hTRIG4 rate <u>1505</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>1.26<math>\mu</math></u> Charge <u>20.37<math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>1</u> ( $\mu$ A)
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:											
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>												

Run Number: <u>4161</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:14</u>	Stop time (from RC): <u>18:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.74 MHz</u>	hTRIG3 rate <u>2112</u>	hTRIG4 rate <u>1513</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>1.75<math>\mu</math></u> Charge <u>10.91<math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>1</u> ( $\mu$ A)
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:											
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>												

# p(e,e'γ) p Run Sheet

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

Date: 24 02 05  
yy mm dd

Initials: RMM

Use a separate sheet for each configuration.

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

E<sub>beam</sub>: 10.536 GeV

Raster:  On  Off  
Size: 2 x 2 mm

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

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.7</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: +/- 5.878 θ(TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 33.02  
Nearest 0.005

**NPS**  
θ = SHMS 16.72  
-16.30° Nearest 0.005

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

Run Number: <u>4162</u>	<input checked="" type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>3</u>	Start time (from RC): <u>18:37</u> Stop time (from RC): <u>18:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.1 MHz</u> hTRIG5 rate: <u>1527</u>	hTRIG3 rate: <u>3083</u> hTRIG6 rate: <u>1133</u>	hTRIG4 rate: <u>2253</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15 μA</u>	Comments:		Events <u>0.19 M</u> Charge <u>12.38 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>2 (μA)</u>		

Run Number: <u>4163</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>19:14</u> 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 checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>40 μA</u>	Comments: <u>Start of KinC x 60 - 36 SHMS → 36.45°, NPS → 20.15°</u>		Events _____ Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): _____ (μA)		

↳ MCE took away beam 19:20

Run Number: <u>4164</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>7</u> PS6: <u>6</u>	Start time (from RC): <u>19:56</u> Stop time (from RC): <u>20:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.21 MHz</u> hTRIG5 rate: <u>876</u>	hTRIG3 rate: <u>3116</u> hTRIG6 rate: <u>674</u>	hTRIG4 rate: <u>2303</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>38 μA</u>	Comments: <u>Start of KinC x 60 - 36</u>		Events <u>2.1 M</u> Charge <u>12.6 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>2 (μA)</u>		

Run Number: <u>4165</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>20:58</u> Stop time (from RC): <u>21:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.21 MHz</u> hTRIG5 rate: <u>868</u>	hTRIG3 rate: <u>3074</u> hTRIG6 rate: <u>685</u>	hTRIG4 rate: <u>2421</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>38 μA</u>	Comments:		Events <u>2.07 M</u> Charge <u>16.1 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal): <u>2 (μA)</u>		

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

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

Date: 24/02/05  
yy mm dd

Initials: RMM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60 36

E<sub>beam</sub>: 10.536 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:		Nomin:
3H07C	X	Y
<u>0.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

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

**SHMS**  
 $\theta$ (TV): 36.45  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 20.15  
-16.30° Nearest 0.005

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

Run Number: <u>4166</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.53 MHz</u>	hTRIG3 rate <u>1613</u>	hTRIG4 rate <u>1216</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>22:20</u>		hTRIG5 rate <u>278</u>	hTRIG6 rate <u>211</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:		Events <u>0.25M</u> Charge <u>23.4 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>2</u> ( $\mu$ A)		

Run Number: <u>4167</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.24 MHz</u>	hTRIG3 rate <u>854</u>	hTRIG4 rate <u>635</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>22:52</u>		hTRIG5 rate <u>105</u>	hTRIG6 rate <u>91</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>MCL took beam away w/ 10 mins. left in run</u>		Events <u>0.15M</u> Charge <u>15.6 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>2</u> ( $\mu$ A)		

Run Number: <u>4168</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>23:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.24 MHz</u>	hTRIG3 rate <u>866</u>	hTRIG4 rate <u>637</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>23:13</u>		hTRIG5 rate <u>106</u>	hTRIG6 rate <u>93</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>another 10 mins of 10 <math>\mu</math>A beam</u>		Events <u>54K</u> Charge <u>55.7 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>2</u> ( $\mu$ A)		

Run Number: <u>4169</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>0.55 MHz</u>	hTRIG3 rate <u>1667</u>	hTRIG4 rate <u>1238</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>23:34</u>		hTRIG5 rate <u>276</u>	hTRIG6 rate <u>221</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>1.18M</u> Charge <u>16.6 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100</u>	Max NPS anode current (single crystal) <u>2</u> ( $\mu$ A)		

# p(e,e'γ) p Run Sheet

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

Date: 24 / 07 / 05  
yy mm dd

Initials: PLM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 6036

E<sub>beam</sub>: 10536 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:		Nomin:
3H07C	X	Y
<u>0.7</u> mm	<u>0.3</u> mm	
Nomin:		Nomin:

**HMS**  
p: +/- 5.878 θ(TV): 16.48  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 36.45  
Nearest 0.005

**NPS**  
θ = SHMS 20.16  
-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>4170</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>23:57</u> Stop time (from RC): <u>23:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.98 kHz</u> hTRIG5 rate: <u>753</u>	hTRIG3 rate: <u>3116</u> hTRIG6 rate: <u>576</u>	hTRIG4 rate: <u>2313</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>71k</u> Charge <u>23.6 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal) ( <u>μA</u> ): <u>2</u>
-------------------------	--	---	---	---	---	---	--	--	-----------	--	---	--

Run Number: <u>4171</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>00:02</u> Stop time (from RC): <u>00:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>870 kHz</u> hTRIG5 rate: <u>490 Hz</u>	hTRIG3 rate: <u>2.4 kHz</u> hTRIG6 rate: <u>330 Hz</u>	hTRIG4 rate: <u>1.6 kHz</u> <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Junk - stuck in coin config</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>100</u>	Max NPS anode current (single crystal) ( <u>μA</u> ): <u>2</u>
-------------------------	--	---	---	---	---	---	--	--	--	--------------------------------	---	--

Run Number: <u>4172</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>00:15:43</u> Stop time (from RC): <u>00:32:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.04 MHz</u> hTRIG5 rate: <u>550 Hz</u>	hTRIG3 rate: <u>2.4 kHz</u> hTRIG6 rate: <u>410 Hz</u>	hTRIG4 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>335k</u> Charge <u>24.3 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.94%</u>	Max NPS anode current (single crystal) ( <u>μA</u> ): <u>3.42</u>
-------------------------	--	---	---	---	--	---	---	--	-----------	---	--	---

Run Number: <u>4173</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>00:34:01</u> Stop time (from RC): <u>00:56:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>630 kHz</u> hTRIG5 rate: <u>250 Hz</u>	hTRIG3 rate: <u>1.6 kHz</u> hTRIG6 rate: <u>190 Hz</u>	hTRIG4 rate: <u>1.1 kHz</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:	Events <u>233k</u> Charge <u>22.91 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>99.99%</u>	Max NPS anode current (single crystal) ( <u>μA</u> ): <u>2.16</u>
-------------------------	--	---	---	---	---	---	---	--	-----------	--	--	---

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

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

Date: 24/02/06  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3b**

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

Raster:  On  Off  
Size: 2mm x 2mm

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

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u> mm		<u>0.30</u> mm
Nomin: <u>1.70</u>		Nomin: <u>0.30</u>
3H07C	X	Y
<u>0.70</u> mm		<u>0.31</u> mm
Nomin: <u>0.70</u>		Nomin: <u>0.30</u>

**HMS**  
p: +0.58790  $\theta$ (TV): 16.490  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.455  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 20.155  
-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: 4174  
I<sub>beam</sub>: 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): 01:09:24  
Stop time (from RC): 02:15:28

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.9 MHz  
hTRIG5 rate: 1.7 kHz

hTRIG3 rate: 4.2 kHz  
hTRIG6 rate: 1.3 kHz

hTRIG4 rate: 3.0 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4.6M  
Charge 10.87 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.526%

Max NPS anode current (single crystal): 2.55 ( $\mu$ A)

Run Number: 4175  
I<sub>beam</sub>: 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): 02:16:37  
Stop time (from RC): 03:26:26

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.9 MHz  
hTRIG5 rate: 1.8 kHz

hTRIG3 rate: 4.1 kHz  
hTRIG6 rate: 1.3 kHz

hTRIG4 rate: 3.0 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4.7M  
Charge 13.13 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.981%

Max NPS anode current (single crystal): 2.47 ( $\mu$ A)

Run Number: 4176  
I<sub>beam</sub>: 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): 03:27:25  
Stop time (from RC): 04:35:04

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.9 MHz  
hTRIG5 rate: 1.7 kHz

hTRIG3 rate: 4.1 kHz  
hTRIG6 rate: 1.2 kHz

hTRIG4 rate: 3.0 kHz  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 4.7M  
Charge 13.09 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.905%

Max NPS anode current (single crystal): 2.32 ( $\mu$ A)

Run Number: 4177  
I<sub>beam</sub>: 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): 04:37:12  
Stop time (from RC): 05:54:36

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.9 MHz  
hTRIG5 rate: 1.7 kHz

hTRIG3 rate: 4.1 kHz  
hTRIG6 rate: 1.3 kHz

hTRIG4 rate: 3.0 kHz  
 Data ok  
 Junk

coin\_sparse   
in   
in\_sparse\_low

Comments:

Events 4.7M  
Charge 12.53 C

Active trigger LiveTime fraction (NPS Scaler Gui): 99.877%

Max NPS anode current (single crystal): 2.47 ( $\mu$ A)

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

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

Date: 24/02/06  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-36

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

HMS, field, current OK?  
 yes  no

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

Raster:  On  Off  
 Size: 2mm x 2mm

Beam position and angle on target:

**HMS**  
 p: +0 5.8780  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.455  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 20.155  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.70</u> mm		<u>0.30</u> mm
Nomin: <u>1.70</u>		Nomin: <u>0.30</u>
3H07C	X	Y
<u>0.70</u> mm		<u>0.29</u> mm
Nomin: <u>0.70</u>		Nomin: <u>0.30</u>

**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>4178</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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): <u>05:56:55</u>	Stop time (from RC): <u>06:44:19</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>	hTRIG3 rate <u>32 kHz</u>	hTRIG4 rate <u>2.2 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> $\mu$ A	Comments:			Events <u>1.9M</u> Charge <u>2.13 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.928 %</u>	Max NPS anode current (single crystal) <u>2.02</u> ( $\mu$ A)			

Run Number: <u>4179</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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): <u>06:46:26</u>	Stop time (from RC): <u>07:32:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>930 kHz</u>	hTRIG3 rate <u>2.1 kHz</u>	hTRIG4 rate <u>1.5 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:			Events <u>886k</u> Charge <u>23.2 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.96</u> ( $\mu$ A)			

Run Number: <u>4180</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: -1 PS2: -1 PS3: -1 PS4: 0 PS5: -1 PS6: -1	Start time (from RC): <u>07:34:59</u>	Stop time (from RC): <u>07:54:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>960 kHz</u>	hTRIG3 rate <u>2.1 kHz</u>	hTRIG4 rate <u>1.6 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:			Events <u>1.8M</u> Charge <u>1.31 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>1.67</u> ( $\mu$ A)			

Run Number: <u>4181</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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): <u>07:58:37</u>	Stop time (from RC): <u>08:18:56</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>3.1 kHz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:			Events <u>229k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.19</u> ( $\mu$ A)			

# p(e,e'γ) p Run Sheet

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

Date: 24/2/6  
yy mm dd

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

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60.3a

E<sub>beam</sub>: 10,539 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**

**SHMS**

**NPS**

p: +k 5.8780 θ(TV): 16.480  
From GUI Nearest 0.005

θ(TV): 33.02  
Nearest 0.005

θ = SHMS 16.72  
-16.30° Nearest 0.005

Collimator: HMS: Large Sieve  NPS Sweep Magnet I = 460 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4183</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>08:36</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.08e6</u>	hTRIG3 rate <u>3222</u>	hTRIG4 rate <u>2.15e6</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC): <u>09:40</u>		hTRIG5 rate <u>1581.4</u>	hTRIG6 rate <u>1185.9</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>341</u> Charge <u>108.80</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.922%</u>	Max NPS anode current (single crystal) <u>4.21</u> (μA)
--	-----------	---	---	--

Run Number: <u>4184</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>9:41</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>2.1 MHz</u>	hTRIG3 rate <u>3.2 kHz</u>	hTRIG4 rate <u>2.5 kHz</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC): <u>10:37</u>		hTRIG5 rate <u>1.5 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>Beam moved a little during run to test BPMs</u>	Events <u>3.1e6</u> Charge <u>12.2</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.915%</u>	Max NPS anode current (single crystal) <u>4.08</u> (μA)
--	---	---	---	--

Run Number: <u>4185</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>10:40</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.1 MHz</u>	hTRIG3 rate <u>1.8 kHz</u>	hTRIG4 rate <u>1.2 kHz</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>11:07</u>		hTRIG5 rate <u>492 kHz</u>	hTRIG6 rate <u>365 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>545k</u> Charge <u>27.6</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.35</u> (μA)
--	-----------	--	--	--

Run Number: <u>4186</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>11:09</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>540 kHz</u>	hTRIG3 rate <u>840 Hz</u>	hTRIG4 rate <u>639 Hz</u>
I <sub>beam</sub> : <u>10</u> μA			Stop time (from RC): <u>11:51</u>		hTRIG5 rate <u>149 kHz</u>	hTRIG6 rate <u>129 Hz</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:	Events <u>280k</u> Charge <u>0.2</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.55</u> (μA)
--	-----------	---	--	--

# p(e,e'γ) p Run Sheet

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

Date: 24/2/17  
yy mm dd

Initials: OG

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3a**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 0.54 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.7</u> mm	<u>-3</u> mm	
Nomin: <u>1.7</u>	Nomin: <u>-3</u>	
3H07C	X	Y
<u>0.3</u> mm	<u>0.7</u> mm	
Nomin: <u>.3</u>	Nomin: <u>.7</u>	

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

**SHMS**  
θ(TV): 33.02  
Nearest 0.005

**NPS**  
θ = SHMS 16.72  
-16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 480 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4187</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:53</u> Stop time (from RC): <u>12:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.2 kHz</u> hTRIG5 rate: <u>464 kHz</u>	hTRIG3 rate: <u>1.6 kHz</u> hTRIG6 rate: <u>394 kHz</u>	hTRIG4 rate: <u>1.2 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	--	--	---

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events: 151 Active trigger LiveTime fraction (NPS Scaler Gui): ? Max NPS anode current (single crystal) (2.38 μA)  
Charge: 0.22 C

Run Number: <u>4188</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>12:17</u> Stop time (from RC): <u>12:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9 kHz</u> hTRIG5 rate: <u>1.4 kHz</u>	hTRIG3 rate: <u>3.2 kHz</u> hTRIG6 rate: <u>1.4 kHz</u>	hTRIG4 rate: <u>2.4 kHz</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	--	--	---

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events: 158 Active trigger LiveTime fraction (NPS Scaler Gui): 100% Max NPS anode current (single crystal) (4.44 μA)  
Charge: 0.3 C

Run Number: <u>4189-90</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): _____ 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 checked="" type="checkbox"/> Junk
----------------------------	--	---	---	--	--	--	--

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

Run Number: <u>4191</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>12:52</u> Stop time (from RC): <u>13:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9 kHz</u> hTRIG5 rate: <u>961 kHz</u>	hTRIG3 rate: <u>2.3 kHz</u> hTRIG6 rate: <u>681 kHz</u>	hTRIG4 rate: <u>1.6 kHz</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	--	--	--

coin\_sparse  coin  coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events: 657 Active trigger LiveTime fraction (NPS Scaler Gui): 99.898% Max NPS anode current (single crystal) (5.67 μA)  
Charge: 0.3 C



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

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

Date: 24, 2, 18  
yy mm dd

Initials: OS

Use a separate sheet for each configuration.

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

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
1.7 mm	0.31 mm	
Nomin:	Nomin:	
3H07C	X	Y
0.7 mm	0.3 mm	
Nomin:	Nomin:	

HMS

SHMS

NPS

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

$\theta$ (TV): 33.00  
Nearest 0.005

$\theta$  = SHMS 16.72  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = ~~400~~ 488 Amp NPS Upstream Corr. I = ~~0~~ Amp NPS Upstream Corr. I = ~~0~~ Amp

Run Number: 4192	<input type="checkbox"/> LH2 10cm <input checked="" 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): 13:14 Stop time (from RC): 13:30	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.2 MHz hTRIG5 rate: 461 Hz	hTRIG3 rate: 1.6 kHz hTRIG6 rate: 330 Hz	hTRIG4 rate: 1.1 kHz <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: 397K Charge: 0.23C	Active trigger LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 3.93 $\mu$ A
--	-----------	-------------------------------	---	--

Run Number: 4193	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 13:52 Stop time (from RC): 14:52	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.5 MHz hTRIG5 rate: 2.5 kHz	hTRIG3 rate: 4.1 kHz hTRIG6 rate: 1.8 kHz	hTRIG4 rate: 3 kHz <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: Trip beam at beginning	Events: 4.7M Charge: 0.5C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.804%	Max NPS anode current (single crystal): 376 $\mu$ A
--	----------------------------------	------------------------------	--	---

Run Number: 4194	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 14:53 Stop time (from RC): 15:51	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.5 MHz hTRIG5 rate: 2.5 kHz	hTRIG3 rate: 4.1 kHz hTRIG6 rate: 1.8 kHz	hTRIG4 rate: 2.9 kHz <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: 6.0M Charge: 0.66C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.804%	Max NPS anode current (single crystal): 376 $\mu$ A
--	-----------	-------------------------------	--	---

Run Number: 4195	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 15:55 Stop time (from RC): 16:48	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.5 MHz hTRIG5 rate: 2.5 kHz	hTRIG3 rate: 4.2 kHz hTRIG6 rate: 1.8 kHz	hTRIG4 rate: 3.0 kHz <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: Ended 40 min early (Mcc took beam away)	Events: 4.1M Charge: 0.45C	Active trigger LiveTime fraction (NPS Scaler Gui): 99.903%	Max NPS anode current (single crystal): 3.79 $\mu$ A
--	---	-------------------------------	--	--

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

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

Date: 24/02/06  
yy mm dd

Initials: MN

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-36

E<sub>beam</sub>: 10.54 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:		Nomin:
3H07C	X	Y
<u>0.3</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): 33.02  
Nearest 0.005

$\theta$  = SHMS 16.72  
-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>4196</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>17:02</u> Stop time (from RC): <u>18:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.46 MHz</u> hTRIG5 rate: <u>2.58 kHz</u>	hTRIG3 rate: <u>4.2 kHz</u> hTRIG6 rate: <u>1.8 kHz</u>	hTRIG4 rate: <u>2.9 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>Possible issue with VTP (Block 878)</u>	Events: <u>7.3M</u> Charge: <u>0.01C</u>	Active trigger fraction (NPS Scaler Gui): <u>99.8%</u>	LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal) ( $\mu$ A): <u>3.34</u>
--	--	---	--	---	--

Run Number: <u>4197</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>18:17</u> Stop time (from RC): <u>19:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.00 MHz</u> hTRIG5 rate: <u>2.6 kHz</u>	hTRIG3 rate: <u>3.08 kHz</u> hTRIG6 rate: <u>1.1 kHz</u>	hTRIG4 rate: <u>2.2 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>Power cycled VTP after run</u>	Events: <u>2.8M</u> Charge: <u>0.02C</u>	Active trigger fraction (NPS Scaler Gui): <u>99.9%</u>	LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal) ( $\mu$ A): <u>2.72</u>
--	---	---	--	---	--

Run Number: <u>4198</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>19:14</u> Stop time (from RC): <u>20:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.7 MHz</u> hTRIG5 rate: <u>0.8 kHz</u>	hTRIG3 rate: <u>2.1 kHz</u> hTRIG6 rate: <u>0.59 kHz</u>	hTRIG4 rate: <u>1.5 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>Looks good after reboot of VTP</u>	Events: <u>1.2M</u> Charge: <u>0.02C</u>	Active trigger fraction (NPS Scaler Gui): <u>100%</u>	LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal) ( $\mu$ A): <u>2.28</u>
--	---	---	---	---	--

Run Number: <u>4199</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:01</u> Stop time (from RC): <u>20:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.7 MHz</u> hTRIG5 rate: <u>0.8 kHz</u>	hTRIG3 rate: <u>2.07 kHz</u> hTRIG6 rate: <u>0.60 kHz</u>	hTRIG4 rate: <u>1.5 kHz</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	--	--	--

coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Loop 2 Fan Alarm. Beam was off for 10 minutes</u>	Events: <u>1.1M</u> Charge: <u>0.02C</u>	Active trigger fraction (NPS Scaler Gui): _____	LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal) ( $\mu$ A): <u>2.11</u>
--	--	---	---	---	--

# $p(e,e'\gamma) p$ 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 60-3g**

$E_{beam}$ : 1054 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

SHMS

NPS

$p$ : +05.870  $\theta$ (TV): 16.48  
From GUI Nearest 0.005

$\theta$ (TV): 33.02  
Nearest 0.005

$\theta$  = SHMS 16.72  
-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:

4200

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

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

Start time (from RC):

20:22

Stop time (from RC):

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

hTRIG1 rate

1.7 MHz

hTRIG3 rate

2.0 kHz

hTRIG4 rate

1.5 kHz

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

hTRIG5 rate

0.8 kHz

hTRIG6 rate

0.6 kHz

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Finish 10 minutes from previous run

Events 0.91M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

Run Number:

4201

- 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

$I_{beam}$ : 4201  $\mu$ A

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:

4202

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

PS1: -1  
PS2: -1  
PS3: 4  
PS4: -1  
PS5: -1  
PS6: 3

Start time (from RC):

21:08

Stop time (from RC):

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

hTRIG1 rate

2.11 MHz

hTRIG3 rate

3.1 kHz

hTRIG4 rate

2.2 kHz

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

hTRIG5 rate

1.5 kHz

hTRIG6 rate

1.1 kHz

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:

4203

- 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):

22:08

Stop time (from RC):

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

hTRIG1 rate

1.03 MHz

hTRIG3 rate

2.3 kHz

hTRIG4 rate

1.6 kHz

$I_{beam}$ : 30  $\mu$ A

hTRIG5 rate

0.5 kHz

hTRIG6 rate

0.37 kHz

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Next Kinematics

Events         
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui)

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

# p(e,e') p Run Sheet

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

Date: 24, 02, yy mm dd

Initials: MA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-3b**

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:

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

HMS

SHMS

NPS

p: +05.878 θ(TV): 16.48  
From GUI Nearest 0.005

θ(TV): 36.45  
Nearest 0.005

θ = SHMS 20.15  
-16.30° Nearest 0.005

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

Run Number: <u>4203</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>22:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.11 MHz</u>	hTRIG3 rate: <u>3.1 kHz</u>	hTRIG4 rate: <u>2.2 kHz</u>
I <sub>beam</sub> : <u>30</u> μA			Stop time (from RC): <u>22:25</u>		hTRIG5 rate: <u>1.5 kHz</u>	hTRIG6 rate: <u>1.1 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>Possible temp problems</u>	Events <u>0.38 M</u> Charge <u>0.028 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>2.87</u> (μA)
--	---	---	--	---

Run Number: <u>4204</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>22:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>0.6 MHz</u>	hTRIG3 rate: <u>1.6 kHz</u>	hTRIG4 rate: <u>1.0 kHz</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>22:49</u>		hTRIG5 rate: <u>0.24 kHz</u>	hTRIG6 rate: <u>0.18 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>Possible temp problems</u>	Events <u>2.6 K</u> Charge <u>0.024 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.51</u> (μA)
--	---	--	---	---

Run Number: <u>4205</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>01:51:18</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>3.2 kHz</u>	hTRIG4 rate: <u>2.4 kHz</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC): <u>02:54:54</u>		hTRIG5 rate: <u>910 Hz</u>	hTRIG6 rate: <u>710 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: _____	Events <u>2.5 M</u> Charge <u>0.493 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.916%</u>	Max NPS anode current (single crystal) <u>2.68</u> (μA)
--	-----------------	--	--	---

Run Number: <u>4206</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>02:56:19</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>3.3 kHz</u>	hTRIG4 rate: <u>2.4 kHz</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC): <u>04:03:40</u>		hTRIG5 rate: <u>970 Hz</u>	hTRIG6 rate: <u>750 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: _____	Events <u>2.5 M</u> Charge <u>0.438 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.963%</u>	Max NPS anode current (single crystal) <u>2.56</u> (μA)
--	-----------------	--	--	---

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

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

Date: 24 10 17  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-36

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

Raster:  On  Off  
Size: 2mm X 2mm

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

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u> mm		<u>0.30</u> mm
Nomin: <u>1.70</u>		Nomin: <u>0.30</u>
3H07C	X	Y
<u>0.70</u> mm		<u>0.29</u> mm
Nomin: <u>0.70</u>		Nomin: <u>0.30</u>

**HMS**  
p: +0.5978 From GUI  $\theta$ (TV): 10.480 Nearest 0.005

**SHMS**  
 $\theta$ (TV): 36.440 Nearest 0.005

**NPS**  
 $\theta$  = SHMS 22.140 Nearest 0.005  
-16.30°

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

Run Number: <u>4207</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>04:06:36</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>550 kHz</u>	hTRIG3 rate <u>1.6 kHz</u>	hTRIG4 rate <u>1.2 kHz</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>04:27:24</u>	hTRIG5 rate <u>240 Hz</u>	hTRIG6 rate <u>200 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>250k</u> Charge <u>23.56 C</u>		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.85</u> ( $\mu$ A)			

Run Number: <u>4208</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>04:29:29</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>240 kHz</u>	hTRIG3 rate <u>830 Hz</u>	hTRIG4 rate <u>650 Hz</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:		Stop time (from RC): <u>05:10:17</u>	hTRIG5 rate <u>100 Hz</u>	hTRIG6 rate <u>90 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>220k</u> Charge <u>23.74 C</u>		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.74</u> ( $\mu$ A)			

Run Number: <u>4209</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:12:44</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>560 kHz</u>	hTRIG3 rate <u>1.6 kHz</u>	hTRIG4 rate <u>1.2 kHz</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:		Stop time (from RC): <u>05:34:30</u>	hTRIG5 rate <u>270 Hz</u>	hTRIG6 rate <u>210 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>1.5M</u> Charge <u>23.85 C</u>		Active trigger LiveTime fraction (NPS Scaler Gui) <u>N/A</u>	Max NPS anode current (single crystal) <u>1.94</u> ( $\mu$ A)			

Run Number: <u>4210</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>05:37:34</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.1 MHz</u>	hTRIG3 rate <u>3.1 kHz</u>	hTRIG4 rate <u>2.4 kHz</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:		Stop time (from RC): <u>05:55:49</u>	hTRIG5 rate <u>790 Hz</u>	hTRIG6 rate <u>600 Hz</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	
coin_sparse <input type="checkbox"/> in <input checked="" type="checkbox"/> n_sparse_low <input type="checkbox"/>	Events <u>125k</u> Charge <u>40.12 C</u>		Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.84</u> ( $\mu$ A)			

# p(e,e'γ) p Run Sheet

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

Date: 24 10 07  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-36**

E<sub>beam</sub>: 10.534 GeV

Raster:  On  Off  
Size: 2mm x 2mm

Purpose:

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

HMS, field, current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.71</u> mm		<u>0.30</u> mm
Nomin: <u>1.70</u>		Nomin: <u>0.30</u>
3H07C	X	Y
<u>0.70</u> mm		<u>0.30</u> mm
Nomin: <u>0.70</u>		Nomin: <u>0.70</u>

**HMS**

**SHMS**

**NPS**

p: +0 5.878 θ(TV): 16.480  
From GUI Nearest 0.005

θ(TV): 36.440  
Nearest 0.005

θ = SHMS 20.140  
-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>4211</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: - PS2: - PS3: - PS4: - PS5: - PS6: 0	Start time (from RC): <u>06:05:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.0 MHz</u>	hTRIG3 rate <u>2.4 kHz</u>	hTRIG4 rate <u>1.6 kHz</u>
I <sub>beam</sub> : <u>30</u> μA			Stop time (from RC):		hTRIG5 rate <u>570 Hz</u>	hTRIG6 rate <u>380 Hz</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Junk - NPS crate error</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>3.40</u>
--	---	---------------------------------	--	--

Run Number: <u>4212</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: - PS2: - PS3: - PS4: - PS5: - PS6: 0	Start time (from RC): <u>06:22:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.0 MHz</u>	hTRIG3 rate <u>2.4 kHz</u>	hTRIG4 rate <u>1.6 kHz</u>
I <sub>beam</sub> : <u>30</u> μA			Stop time (from RC): <u>06:39:14</u>		hTRIG5 rate <u>530 Hz</u>	hTRIG6 rate <u>390 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:	Events <u>370k</u> Charge <u>2741C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>3.11</u>
--	-----------	---	--	--

Run Number: <u>4213</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: - PS2: - PS3: - PS4: - PS5: - PS6: 0	Start time (from RC): <u>06:48:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>630 kHz</u>	hTRIG3 rate <u>1.6 kHz</u>	hTRIG4 rate <u>1.1 kHz</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>07:11:43</u>		hTRIG5 rate <u>280 Hz</u>	hTRIG6 rate <u>190 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:	Events <u>240k</u> Charge <u>2417C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>2.50</u>
--	-----------	---	--	--

Run Number: <u>4214</u>	<input type="checkbox"/> LH2 10cm <input 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: 0	Start time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>20</u> μA			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>Junk - DAQ Error</u>	Events _____ Charge <u>C</u>	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: 24 / 102 / 07  
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

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

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

Raster:  On  Off  
Size: 2mm x 2mm

**Purpose:**

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

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u>	mm	<u>6.30</u> mm
Nomin:	<u>1.70</u>	Nomin: <u>6.30</u>
3H07C	X	Y
<u>0.70</u>	mm	<u>0.31</u> mm
Nomin:	<u>0.70</u>	Nomin: <u>0.30</u>

**HMS**

**SHMS**

**NPS**

p: +0.5.974  $\theta$ (TV): 16.480  
From GUI Nearest 0.005

$\theta$ (TV): 36.440  
Nearest 0.005

$\theta$  = SHMS 20.140  
-16.30° Nearest 0.005

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

Run Number: <u>4215</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>07:25:13</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>4.1 kHz</u>	hTRIG4 rate <u>3.0 kHz</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>08:33</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>65 MB/s</u>	Events <u>4.0M</u> Charge <u>72.3 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.7789%</u>	Max NPS anode current (single crystal) ( $\mu$ A) <u>2.14</u>
--	-----------------------------	---	--	--

Run Number: <u>4216</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LED</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
---	-------------------------	--------------------------------	---	---

Run Number: <u>4217</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : _____ $\mu$ A			Stop time (from RC):		hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>LED</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
---	-------------------------	--------------------------------	---	---

4218-4220 JUNK

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 <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
---	-----------	--------------------------------	---	---

# p(e,e') p Run Sheet

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

Date: 24/02/07  
yy mm dd

Initials: ERK

Use a separate sheet for each configuration.

Kinematics: KinC ~~x~~ 130

LED  
Runs

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: +/- \_\_\_\_\_ 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: <u>4221</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> <u>OUTPBeu</u>	PS1: -1 PS2: 0 PS3: -1 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): <u>13:32</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate <u>7000</u>	hTRIG4 rate
I <sub>beam</sub> : _____ μA	Stop time (from RC): <u>14:25</u>				hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>coin-vid, LEDTM off</u> <u>LED on all, cosmic HV</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
---	--	--------------------------------	---	---

Run Number: <u>4222</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> <u>005</u>	PS1: -1 PS2: 0 PS3: -1 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): <u>14:30</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate <u>~7000</u>	hTRIG4 rate
I <sub>beam</sub> : _____ μA	Stop time (from RC): <u>15:18</u>				hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>coin-vid, LEDTM=0</u> <u>LED on all, LED HV</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
---	---	--------------------------------	---	---

Run Number: <u>4223</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l. <input checked="" type="checkbox"/> <u>005</u>	PS1: -1 PS2: 0 PS3: -1 PS4: -1 PS5: -1 PS6: -1	Start time (from RC): <u>15:21</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate <u>~7000</u>	hTRIG4 rate
I <sub>beam</sub> : _____ μA	Stop time (from RC): <u>16:10</u>				hTRIG5 rate	hTRIG6 rate	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>coin-vid-sparse, LEDTM=0</u> <u>LED on all, LED HV</u>	Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
---	--	--------------------------------	---	---

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

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events _____ Charge _____ 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: 24 1021 08  
yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60\_4a**

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

Raster:  On  Off  
Size: 2x2

Purpose:

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

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u>	mm	<u>0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

$\theta$ (TV): 30.375  
Nearest 0.005

$\theta$  = SHMS 14.075  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 467 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number:

4224

- 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):

0:37

Stop time (from RC):

0:54

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

hTRIG1 rate

2.33x10<sup>6</sup>

hTRIG3 rate

1471

hTRIG4 rate

1043

I<sub>beam</sub>: 40  $\mu$ A

hTRIG5 rate

836

hTRIG6 rate

587

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

htrig = 2.33 MHz

Events 498K  
Charge 27mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.44%

Max NPS anode current (single crystal) 5.25 ( $\mu$ A)

Run Number:

4225

- 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):

0:55

Stop time (from RC):

0:58

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

hTRIG1 rate

2.21x10<sup>6</sup>

hTRIG3 rate

hTRIG4 rate

I<sub>beam</sub>: 38  $\mu$ A

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:

4226

- 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):

0:59

Stop time (from RC):

2:01

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

hTRIG1 rate

2.16x10<sup>6</sup>

hTRIG3 rate

1340

hTRIG4 rate

880

I<sub>beam</sub>: 35  $\mu$ A

hTRIG5 rate

690

hTRIG6 rate

470

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1.475K  
Charge 104mC

Active trigger LiveTime fraction (NPS Scaler Gui) 100%

Max NPS anode current (single crystal) 4.91 ( $\mu$ A)

Run Number:

4227

- 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):

2:02

Stop time (from RC):

3:03

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

hTRIG1 rate

2.15x10<sup>6</sup>

hTRIG3 rate

1316

hTRIG4 rate

902

I<sub>beam</sub>: 35  $\mu$ A

hTRIG5 rate

652

hTRIG6 rate

461

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments:

Events 1.529K  
Charge 104mC

Active trigger LiveTime fraction (NPS Scaler Gui) 99.48%

Max NPS anode current (single crystal) 4.87 ( $\mu$ A)

# p(e,e') p Run Sheet

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

Date: 24/10/2008  
yy mm dd

Initials: MK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-40**

E<sub>beam</sub>: 10.538 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>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.375  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.075  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet I = 467 Amp  
NPS Upstream Corr. I = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>4228</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.37 · 10<sup>6</sup></u>	hTRIG3 rate <u>791</u>	hTRIG4 rate <u>558</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>3:27</u>		hTRIG5 rate <u>269</u>	hTRIG6 rate <u>188</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 263 K  
Charge 26 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 3.15 ( $\mu$ A)

Run Number: <u>4229</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>3:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.47 · 10<sup>5</sup></u>	hTRIG3 rate <u>385</u>	hTRIG4 rate <u>289</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A			Stop time (from RC): <u>4:11</u>		hTRIG5 rate <u>111</u>	hTRIG6 rate <u>86</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 209 K  
Charge 24 C  
Active trigger LiveTime fraction (NPS Scaler Gui) 100%  
Max NPS anode current (single crystal) 1.82 ( $\mu$ A)

Run Number: <u>4230</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>4:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.38 · 10<sup>6</sup></u>	hTRIG3 rate <u>740</u>	hTRIG4 rate <u>536</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>4:32</u>		hTRIG5 rate <u>273</u>	hTRIG6 rate <u>191</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 591 K  
Charge 21 C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) 2.98 ( $\mu$ A)

Run Number: <u>4231</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>4:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.38 · 10<sup>6</sup></u>	hTRIG3 rate <u>766</u>	hTRIG4 rate <u>544</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A			Stop time (from RC): <u>4:53</u>		hTRIG5 rate <u>263</u>	hTRIG6 rate <u>263</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low   
Comments: \_\_\_\_\_  
Events 873  
Charge 21 C  
Active trigger LiveTime fraction (NPS Scaler Gui) \_\_\_\_\_  
Max NPS anode current (single crystal) 3.06 ( $\mu$ A)

# 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\_x** 60-4a

E<sub>beam</sub>: 10,538 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**  
 Production  
 Test  
 Optics  
 Other:           

HMS, field,  
current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.71</u> mm		<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.375  
Nearest 0.005

**NPS**  
θ = SHMS 14.075  
-16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 467 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4232</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>3</u>	Start time (from RC): <u>4:57</u> Stop time (from RC): <u>4:59</u>	<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 <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Junk. changing PS</u>	Events <u>          </u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
--	------------------------------------	---	---	---

Run Number: <u>4233</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>4:59</u> Stop time (from RC): <u>5:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.16·10<sup>6</sup></u> hTRIG3 rate <u>1278</u> hTRIG4 rate <u>911</u> hTRIG5 rate <u>729</u> hTRIG6 rate <u>486</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>          </u>	Events <u>38k</u> Charge <u>28 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.94%</u>	Max NPS anode current (single crystal) (μA) <u>4.90</u>
--	-----------------------------	---	---	---

Run Number: <u>4234</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>5:23</u> Stop time (from RC): <u>5:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.22·10<sup>6</sup></u> hTRIG3 rate <u>1246</u> hTRIG4 rate <u>733</u> hTRIG5 rate <u>666</u> hTRIG6 rate <u>400</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>timing dist off?</u>	Events <u>327k</u> Charge <u>23 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.97%</u>	Max NPS anode current (single crystal) (μA) <u>8.06</u>
--	-----------------------------------	--	---	---

Run Number: <u>4235</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>5:41</u> Stop time (from RC): <u>5:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate hTRIG3 rate hTRIG4 rate hTRIG5 rate hTRIG6 rate	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-------------------------	--	---	---	--	---	--

coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>Junk. reset coda/vme</u>	Events <u>          </u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)
---	---------------------------------------	---	---	---

# p(e,e'γ) p Run Sheet

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

Date: 24/02/16  
yy mm dd

Initials: MK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-4u

**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:

**HMS**  
p: +/- -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.375  
Nearest 0.005

**NPS**  
θ = SHMS 14.075  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.70</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 467 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4236</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): Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>Coda disconnect</u>			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

Run Number: <u>4237</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: _____	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>20</u> μA	Comments: <u>Coda disconnect</u>			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

Run Number: <u>4238</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>6:00</u> Stop time (from RC): <u>6:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.55 · 10<sup>6</sup></u>	hTRIG3 rate <u>830</u>	hTRIG4 rate <u>509</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: _____			Events <u>228K</u> Charge <u>22 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>5.70</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

Run Number: <u>4239</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>6:29</u> Stop time (from RC): <u>6:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.46 · 10<sup>6</sup></u>	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>15</u> μA	Comments: <u>htrig1 = 2.4 MHz</u>			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk

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

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

Date: 24/02/08  
yy mm dd

Initials: mk

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

**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>1.70</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.375  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.075  
-16.30° Nearest 0.005

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 467 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 6 Amp

Run Number: <u>4240</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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): <del>6:35</del> <u>6:35</u> Stop time (from RC): <u>6:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.17 · 10<sup>6</sup></u>	hTRIG3 rate <u>1198</u>	hTRIG4 rate <u>792</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A					hTRIG5 rate <u>632</u>	hTRIG6 rate <u>430</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>reset vme crates. Junk</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.96%</u>	Max NPS anode current (single crystal) <u>3.07</u> ( $\mu$ A)
--	--	---------------------------------	--	--

Run Number: <u>4241</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>12</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>codu reset</u>	Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) ( $\mu$ A)
--	--------------------------------	---------------------------------	---	--

Run Number: <u>4242</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>7:07</u> Stop time (from RC): <u>8:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.16 · 10<sup>6</sup></u>	hTRIG3 rate <u>1232</u>	hTRIG4 rate <u>802</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A					hTRIG5 rate <u>617</u>	hTRIG6 rate <u>417</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>#11</u>	Events <u>1.462M</u> Charge <u>39.96C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.18</u> ( $\mu$ A)
--	-------------------------	--	--	--

Run Number: <u>4243</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>8:09</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>2.246</u>	hTRIG3 rate <u>1254</u>	hTRIG4 rate <u>782</u>
I <sub>beam</sub> : <u>12</u> $\mu$ A					hTRIG5 rate <u>634</u>	hTRIG6 rate <u>444</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: <u>#2</u>	Events <u>1.408M</u> Charge <u>38.73C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.13</u> ( $\mu$ A)
---	------------------------	--	--	--

38.73C

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

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

Date: 24/02/08  
yy mm dd

Initials: SGD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-4a

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

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

**Purpose:**

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

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u> mm		<u>0.288</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.705</u> mm		<u>0.301</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +/- -5.03  $\theta$ (TV): 19.36  
From GUI Nearest 0.005

$\theta$ (TV): 30.78  
Nearest 0.005

$\theta$  = SHMS 14.08  
-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: <u>4244</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>9:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>1261</u>	hTRIG4 rate <u>814</u>
I <sub>beam</sub> : <u>12 <math>\mu</math>A</u>			Stop time (from RC): <u>9:54</u>		hTRIG5 rate <u>660</u>	hTRIG6 rate <u>412</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 RUN -&gt; MCC CALLS @ 9:52 AM DUMP HIGH PRESSURE (SCOE - UNKNOWN) DOWN TIME</u>	Events <u>0.971M</u> Charge <u>26.9 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.9%</u>	Max NPS anode current (single crystal) <u>3.12 (<math>\mu</math>A)</u>
--	--	---	---	---

Run Number: <u>4245</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2e6</u>	hTRIG3 rate <u>1250</u>	hTRIG4 rate <u>804</u>
I <sub>beam</sub> : <u>12 <math>\mu</math>A</u>			Stop time (from RC): <u>11:06</u>		hTRIG5 rate <u>670</u>	hTRIG6 rate <u>419</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#4</u>	Events <u>1.73M</u> Charge <u>36.5 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.22 (<math>\mu</math>A)</u>
--	---------------------	--	--	---

Run Number: <u>4246</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>11:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.18e6</u>	hTRIG3 rate <u>1222</u>	hTRIG4 rate <u>759</u>
I <sub>beam</sub> : <u>12 <math>\mu</math>A</u>			Stop time (from RC): <u>12:07</u>		hTRIG5 rate <u>681</u>	hTRIG6 rate <u>424</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>#5 @ 12</u>	Events <u>1.35M</u> Charge <u>37 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>3.12 (<math>\mu</math>A)</u>
--	--------------------------	--	--	---

Run Number: <u>4247</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>12:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.44e6</u>	hTRIG3 rate <u>1545</u>	hTRIG4 rate <u>1008</u>
I <sub>beam</sub> : <u>15 <math>\mu</math>A</u>			Stop time (from RC): <u>13:59</u>		hTRIG5 rate <u>890</u>	hTRIG6 rate <u>590</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:	Events <u>2.34M</u> Charge <u>54 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>99.93%</u>	Max NPS anode current (single crystal) <u>3.85 (<math>\mu</math>A)</u>
--	-----------	--	--	---

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

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

Date: 24 / 2 / 18  
 yy mm dd

Initials: SOB

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-4a

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

Raster:  On  Off  
 Size: 7x2 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:		Nomin:
3H07C	X	Y
	<u>0.7</u> mm	<u>0.3</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +0.5038  $\theta$ (TV): 19.36  
From GUI Nearest 0.005

$\theta$ (TV): 30.38  
Nearest 0.005

$\theta$  = SHMS  
-16.30° Nearest 0.005

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

Run Number: <u>4248</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>14:00</u> Stop time (from RC): <u>14:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.64</u> hTRIG5 rate: <u>315</u>	hTRIG3 rate: <u>830</u> hTRIG6 rate: <u>285</u>	hTRIG4 rate: <u>520</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>4951k</u> Charge <u>17.4 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>2.34 <math>\mu</math>A</u>
--	-----------	---	---	--

Run Number: <u>4249</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>14:42</u> Stop time (from RC): <u>15:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.22e6</u> hTRIG5 rate: <u>205</u>	hTRIG3 rate: <u>604</u> hTRIG6 rate: <u>155</u>	hTRIG4 rate: <u>415</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>318k</u> Charge <u>12.4 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) <u>1.82 <math>\mu</math>A</u>
--	-----------	--	---	--

Run Number: <u>4250</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:24</u> Stop time (from RC): <u>15:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.31e6</u> hTRIG5 rate: <u>218</u>	hTRIG3 rate: <u>659</u> hTRIG6 rate: <u>146</u>	hTRIG4 rate: <u>433</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>464k</u> Charge <u>6.6 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0% (?)</u>	Max NPS anode current (single crystal) <u>2.33 <math>\mu</math>A</u>
--	-----------	---	---	--

Run Number: <u>4251</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input 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>15:46</u> Stop time (from RC): <u>16:07:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.29e6</u> hTRIG5 rate: <u>207</u>	hTRIG3 rate: <u>655</u> hTRIG6 rate: <u>162</u>	hTRIG4 rate: <u>420</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	--	--	---	--	---

coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments:	Events <u>126854</u> Charge <u>6.75 <math>\mu</math>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>2.28 <math>\mu</math>A</u>
---	-----------	--	---	--

# p(e,e'γ) p Run Sheet

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

Date: 24 / 10 / 08  
 yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-4b**

Purpose:

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.588 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: +0-5.038 θ(TV): 19.35  
From GUI Nearest 0.005

SHMS  
 θ(TV): 30.38  
Nearest 0.005

NPS  
 θ = SHMS 14.08  
-16.30° Nearest 0.005

Collimator: HMS: Large  Sieve   
 NPS Sweep Magnet I = 461.92 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>4252</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>3</u> PS6: <u>3</u>	Start time (from RC): <u>16:17:29</u>	Stop time (from RC): <u>16:34:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.9e6</u>	hTRIG3 rate <u>1237.5</u>	hTRIG4 rate <u>812.8</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>76378</u> Charge <u>10.49</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>3.14</u>
I <sub>beam</sub> : <u>12</u> μA	Comments: <u>last run for x60-4a</u>											

Run Number: <u>4253</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>17:52:36</u>	Stop time (from RC): <u>18:59:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.35e6</u>	hTRIG3 rate <u>1510</u>	hTRIG4 rate <u>1045</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>1205931</u> Charge <u>134.58</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>3.16</u>
I <sub>beam</sub> : <u>40</u> μA	Comments: <u>x60-4b</u>											

Run Number: <u>4254</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>19:02:01</u>	Stop time (from RC): <u>20:04:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.32e6</u>	hTRIG3 rate <u>1498</u>	hTRIG4 rate <u>1046</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>1133755</u> Charge <u>17.02</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>336 99.98%</u>	Max NPS anode current (single crystal) (μA) <u>3.50</u>
I <sub>beam</sub> : <u>40</u> μA	Comments: <u>x60-4b</u>											

Run Number: <u>4256</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>20:05:50</u>	Stop time (from RC): <u>20:27:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.08e5</u>	hTRIG3 rate <u>733</u>	hTRIG4 rate <u>530</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	Events <u>121624</u> Charge <u>18.41</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>2.24</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>x60-4b</u>											



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

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

Date: 24, 02, 08  
 yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-4b**

Purpose:

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

HMS, field, current OK?  
 yes  no

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

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: +0 -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.81  
Nearest 0.004

**NPS**  
 $\theta$  = SHMS 17.51  
 -16.30°  
Nearest 0.005

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

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 467.43 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: 4256 I<sub>beam</sub>: 10  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: -	Start time (from RC): 20:29:53	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: 2.64e5	hTRIG3 rate: 399	hTRIG4 rate: 291
<input type="checkbox"/> LD2 10cm	PS2: -	Stop time (from RC): 21:18:57	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: 73	hTRIG6 rate: 67	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: -		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: -					
<input type="checkbox"/> C 0.5% r.l.	PS5: 0					
<input type="checkbox"/>	PS6: -					

coin\_sparse  coin  coin\_sparse\_low

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

Events: 186716 Charge: 21.23 mC Active trigger LiveTime fraction (NPS Scaler Gui): 100% Max NPS anode current (single crystal): 1.75 ( $\mu$ A)

Run Number: 4257 I<sub>beam</sub>: 20  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: -	Start time (from RC): 21:22:05	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: 6.22e5	hTRIG3 rate: 777	hTRIG4 rate: 546
<input type="checkbox"/> LD2 10cm	PS2: -	Stop time (from RC): 21:45:40	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: 166	hTRIG6 rate: 129	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: -		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: 0					
<input type="checkbox"/> C 0.5% r.l.	PS5: -					
<input type="checkbox"/>	PS6: -					

coin\_sparse  coin  coin\_sparse\_low

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

Events: 638763 Charge: 22.56 mC Active trigger LiveTime fraction (NPS Scaler Gui): 100% Max NPS anode current (single crystal): 2.07 ( $\mu$ A)

Run Number: 4258 I<sub>beam</sub>: 20  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: -	Start time (from RC): 21:47:23	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: 6.23e5	hTRIG3 rate: 787	hTRIG4 rate: 547
<input type="checkbox"/> LD2 10cm	PS2: -	Stop time (from RC): 22:08:10	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: 157	hTRIG6 rate: 121	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: 0		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: -					
<input type="checkbox"/> C 0.5% r.l.	PS5: -					
<input type="checkbox"/>	PS6: -					

coin\_sparse  coin  coin\_sparse\_low

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

Events: 90354 Charge: 22.13 mC Active trigger LiveTime fraction (NPS Scaler Gui): 100% Max NPS anode current (single crystal): 2.11 ( $\mu$ A)

Run Number: 4259 I<sub>beam</sub>: 40  $\mu$ A

<input checked="" type="checkbox"/> LH2 10cm	PS1: -	Start time (from RC): 22:12:17	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: 1.39e6	hTRIG3 rate: 1501	hTRIG4 rate: 1046
<input type="checkbox"/> LD2 10cm	PS2: -	Stop time (from RC): 22:28:27	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: 502	hTRIG6 rate: 363	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: -		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: -					
<input type="checkbox"/> C 0.5% r.l.	PS5: -					
<input type="checkbox"/>	PS6: 3					

coin\_sparse  coin  coin\_sparse\_low

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

Events: 59102 Charge: 32.4 mC Active trigger LiveTime fraction (NPS Scaler Gui): 100% Max NPS anode current (single crystal): 3.38 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

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

Date: 24 / 10 / 08  
 yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-46

E<sub>beam</sub>: 10.538 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:		Nomin:
3H07C	X	Y
<u>0.7</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

**HMS**  
 p: +0-5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 33.81  
Nearest 0.005

**NPS**  
 θ = SHMS 17.51  
 -16.30° Nearest 0.005

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: 4260  
 I<sub>beam</sub>: 30 μA

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

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

Start time (from RC): 22:36:52  
 Stop time (from RC): 22:53:08

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.17e6 hTRIG3 rate: 1240 hTRIG4 rate: 731  
 hTRIG5 rate: 361 hTRIG6 rate: 729

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

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

Events 177940 Charge 23.28 C

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

Max NPS anode current (single crystal): 4.73 (μA)

Run Number: 4261  
 I<sub>beam</sub>: 20 μA

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

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

Start time (from RC): 22:55:06  
 Stop time (from RC): 23:17:14

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 7.14e5 hTRIG3 rate: 859 hTRIG4 rate: 506  
 hTRIG5 rate: 167 hTRIG6 rate: 118

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

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

Events 140976 Charge 23.92 C

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

Max NPS anode current (single crystal): 3.29 (μA)

Run Number: 4262  
 I<sub>beam</sub>: 20 μA

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

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

Start time (from RC): 23:26:07  
 Stop time (from RC): 00:28:38

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.95e6 hTRIG3 rate: 2019 hTRIG4 rate: 1284  
 hTRIG5 rate: 916 hTRIG6 rate: 597

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: Data rate ~ 35 MB/s.

Events 1.9M Charge 6.71 C

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

Max NPS anode current (single crystal): 3.07 (μA)

Run Number: 4263  
 I<sub>beam</sub>: 20 μA

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): 00:29:40  
 Stop time (from RC): 1:28:04

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.98 x 10<sup>6</sup> hTRIG3 rate: 2065 hTRIG4 rate: 1307  
 hTRIG5 rate: 920 hTRIG6 rate: 603

Data ok  
 Junk

coin\_sparse  coin  coin\_sparse\_low

Comments: Data rate ~ 36 MB/s

Events 2M Charge 6.88 C

Active trigger LiveTime fraction (NPS Scaler Gui): 98.545%

Max NPS anode current (single crystal): 3.09 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 24/2/19  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-46

E<sub>beam</sub>: 10.538 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
1.698 mm		0.299 mm
Nomin: 1.7		Nomin: 0.3
3H07C	X	Y
0.7 mm		0.298 mm
Nomin: 0.7		Nomin: 0.3

**HMS**

**SHMS**

**NPS**

p: +5.038 θ(TV): 19.36  
From GUI Nearest 0.005

θ(TV): 33.81  
Nearest 0.005

θ = SHMS 17.51  
-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: 4264	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 1:29:05 Stop time (from RC): 2:28:49	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.95x10 <sup>6</sup> hTRIG5 rate: 921	hTRIG3 rate: 2037 hTRIG6 rate: 605	hTRIG4 rate: 1298 <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: Data rate ~ 35 MB/s.	Events 2M Charge 5.46 <sup>m</sup>	Active trigger LiveTime fraction (NPS Scaler Gui) 99.899%	Max NPS anode current (single crystal) 2.91 (μA)
--	--------------------------------	---------------------------------------	---	--

Run Number: 4265	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 2:29:31 Stop time (from RC): 3:30:35	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.95x10 <sup>6</sup> hTRIG5 rate: 937	hTRIG3 rate: 2054 hTRIG6 rate: 592	hTRIG4 rate: 1300 <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: Data rate ~ 36 MB/s.	Events 2.1M Charge 7.28 <sup>m</sup>	Active trigger LiveTime fraction (NPS Scaler Gui) 99.959%	Max NPS anode current (single crystal) 2.93 (μA)
--	--------------------------------	---	---	--

Run Number: 4266	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 3:36:20 Stop time (from RC): 4:17:24	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.53x10 <sup>6</sup> hTRIG5 rate: 551	hTRIG3 rate: 1519 hTRIG6 rate: 350	hTRIG4 rate: 948 <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: Data rate ~ 17 MB/s.	Events 0.87M Charge 34.93 <sup>m</sup>	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 2.51 (μA)
--	--------------------------------	---	--	--

Run Number: 4267	<input type="checkbox"/> LH2 10cm <input checked="" type="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): 4:19:21 Stop time (from RC): 5:00:27	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.01x10 <sup>6</sup> hTRIG5 rate: 245	hTRIG3 rate: 992 hTRIG6 rate: 184	hTRIG4 rate: 643 <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: Data rate ~ 5 MB/s.	Events 0.45M Charge 23.13 <sup>m</sup>	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 1.85 (μA)
--	-------------------------------	---	--	--

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

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

Date: 24 / 2 / 9  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-4b**

E<sub>beam</sub>: 10.538 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
1.697 mm		0.302 mm
Nomin: 1.7		Nomin: 0.3
3H07C	X	Y
0.699 mm		0.301 mm
Nomin: 0.7		Nomin: 0.3

**HMS**

**SHMS**

**NPS**

p: +155.038  $\theta$ (TV): 19.36  
From GUI Nearest 0.005

$\theta$ (TV): 33.81  
Nearest 0.005

$\theta$  = SHMS 17.51  
-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: 4268	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: + PS2: + PS3: - PS4: 0 PS5: - PS6: +	Start time (from RC): 5:02:10 Stop time (from RC): 5:23:48	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1x10 <sup>6</sup> hTRIG5 rate: 272	hTRIG3 rate: 1031 hTRIG6 rate: 182	hTRIG4 rate: 663 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 10 $\mu$ A	Comments: Data rate ~ 20 MB/s.		Events: 0.8 M Charge: 11.7 C	Active trigger fraction (NPS Scaler Gui): 0%	LiveTime fraction (NPS Scaler Gui): 0%	Max NPS anode current (single crystal): 2.11 ( $\mu$ A)	

Run Number: 4269	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: + PS2: + PS3: 0 PS4: + PS5: + PS6: +	Start time (from RC): 5:28:18 Stop time (from RC): 5:42:49	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 106 hTRIG5 rate: 261	hTRIG3 rate: 1122 hTRIG6 rate: 185	hTRIG4 rate: 583 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : $\mu$ A	Comments: Data rate ~ 30 MB/s.		Events: 0.77 M Charge: 7.19 C	Active trigger fraction (NPS Scaler Gui): 0%	LiveTime fraction (NPS Scaler Gui): 0%	Max NPS anode current (single crystal): 2.12 ( $\mu$ A)	

Run Number: 4270	<input type="checkbox"/> LH2 10cm <input checked="" type="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: 3	Start time (from RC): 5:47:14 Stop time (from RC): 6:04:41	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 1.96x10 <sup>6</sup> hTRIG5 rate: 927	hTRIG3 rate: 2031 hTRIG6 rate: 588	hTRIG4 rate: 1297 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 20 $\mu$ A	Comments: Data rate ~ 22 MB/s.		Events: 0.11 M Charge: 18.5 C	Active trigger fraction (NPS Scaler Gui): 100%	LiveTime fraction (NPS Scaler Gui): 100%	Max NPS anode current (single crystal): 3.22 ( $\mu$ 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 hTRIG5 rate	hTRIG3 rate hTRIG6 rate	hTRIG4 rate <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : $\mu$ A	Comments:		Events: _____ Charge: _____ C	Active trigger fraction (NPS Scaler Gui)	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:Runsheets\_dvcs\_NPS.pdf

Date: 29 / 2 / 09  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-4a

Purpose:

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

HMS, field, current OK?

yes  no

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

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

Beam position and angle on target:

3H07A	X	Y
1.699 mm		0.292 mm
Nomin: 1.7		Nomin: 0.3
3H07C	X	Y
0.699 mm		0.292 mm
Nomin: 0.7		Nomin: 0.3

HMS

SHMS

NPS

p: +0.51038 θ(TV): 19.35  
From GUI Nearest 0.005

θ(TV): 30.37  
Nearest 0.005

θ = SHMS 14.70  
-16.30° Nearest 0.005

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

Run Number: 4271	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 6:25:35 Stop time (from RC): 7:29:58	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.16x10 <sup>6</sup> hTRIG5 rate: 678	hTRIG3 rate: 1255 hTRIG6 rate: 495	hTRIG4 rate: 898 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 35 μA	Comments: Data rate ~ 26 MB/s.		Events 1.5M Charge 108.2 μC	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 4.74 (μA)		

Run Number: 4272	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 7:31:08 Stop time (from RC): 8:31:48	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.15x10 <sup>6</sup> hTRIG5 rate: 671	hTRIG3 rate: 1155 hTRIG6 rate: 457	hTRIG4 rate: 867 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 35 μA	Comments: Data rate ~ 28 MB/s.		Events 1.3M Charge 93 μC	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 4.79 (μA)		

Run Number: 4273	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 8:52:37 Stop time (from RC): 9:50:20	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.1e6 hTRIG5 rate: 684	hTRIG3 rate: 1077 hTRIG6 rate: 499	hTRIG4 rate: 901 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 35 μA	Comments: Data rate 25 MB/s / 20 min Beam off		Events 1.4M Charge 98 μC	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 4.45 (μA)		

Run Number: 4274	<input checked="" type="checkbox"/> LH2 10cm <input type="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): 9:51:11 Stop time (from RC): 10:55:41	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: 2.1e6 hTRIG5 rate: 661	hTRIG3 rate: 1315 hTRIG6 rate: 472	hTRIG4 rate: 902 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : 34 μA	Comments: 25 MB/s		Events 1.46M Charge 105 μC	Active trigger LiveTime fraction (NPS Scaler Gui) 100%	Max NPS anode current (single crystal) 5.14 (μA)		

# p(e,e'γ) p Run Sheet

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

Date: 24, 2, 9  
yy mm dd

Initials: SCD

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x60\_4a

**Purpose:**

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

HMS, field,  
current OK?

yes  no

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

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>1.69</u> mm		<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.08</u> mm		<u>0.29</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +5.038 From GUI θ(TV): 19.35 Nearest 0.005

θ(TV): 20.37 Nearest 0.005

θ = SHMS 14.70  
-16.30° Nearest 0.005

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

Run Number: <u>4275</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>10:57:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.33 e6</u>	hTRIG3 rate <u>769</u>	hTRIG4 rate <u>544</u>
I <sub>beam</sub> : <u>20</u> μA	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>263</u>	hTRIG6 rate <u>205</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>271K</u> Charge <u>26 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>2.94</u>
--	---	--	--

Run Number: <u>4276</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>11:24:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.525</u>	hTRIG3 rate <u>397</u>	hTRIG4 rate <u>284</u>
beam: <u>10</u> μA	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>95</u>	hTRIG6 rate <u>79</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>196K</u> Charge <u>22 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>100%</u>	Max NPS anode current (single crystal) (μA) <u>1.79</u>
--	---	--	--

Run Number: <u>4277</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:06:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.326</u>	hTRIG3 rate <u>745</u>	hTRIG4 rate <u>546</u>
I <sub>beam</sub> : <u>20</u> μA	Comments:			<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>248</u>	hTRIG6 rate <u>191</u>	

coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>610K</u> Charge <u>21 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) (μA) <u>2.98</u>
--	---	--	--

Run Number: <u>4278</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>12:32:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.326</u>	hTRIG3 rate <u>1493</u>	hTRIG4 rate <u>1026</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:			<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>837</u>	hTRIG6 rate <u>593</u>	

coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> in_sparse_low <input type="checkbox"/>	Events <u>411K</u> Charge <u>30 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) (μA) <u>5.6</u>
--	---	---	---

# p(e,e'γ) p Run Sheet

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

Date: 24 / 12 / 19  
yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-6a

**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>0.300</u> mm
Nomin:		
3H07C	X	Y
<u>0.69</u>	mm	<u>0.3</u> mm
Nomin:		

**HMS**  
p: +10 5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.37  
Nearest 0.005

**NPS**  
θ = SHMS 14.7  
-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>4279</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:56:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1726</u>	hTRIG3 rate <u>1236</u>	hTRIG4 rate <u>726</u>
I <sub>beam</sub> : <u>30</u> μA	Comments: <u>Junk COIN to COIN-SPARSE ISSUE</u>			Events _____ Charge <u>0</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>7.90</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4281</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:21:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.126</u>	hTRIG3 rate <u>1248</u>	hTRIG4 rate <u>747</u>
I <sub>beam</sub> : <u>30</u> μA	Comments: _____			Events <u>77712</u> Charge <u>30μA</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>8.06</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4282</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:44:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.4926</u>	hTRIG3 rate <u>860</u>	hTRIG4 rate <u>508</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>~20MB/A</u>			Events <u>59212</u> Charge <u>20μA</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>8</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4283</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:14:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.5826</u>	hTRIG3 rate <u>2018</u>	hTRIG4 rate <u>1271</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>#1/8</u>			Events <u>4.1M</u> Charge <u>62μA</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>4.8</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

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

Date: 24 / 12 / 09  
yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60\_4a

**Purpose:**

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

HMS, field,  
current OK?  
yes  no

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

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

**HMS**  
p: +10.51038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.57  
Nearest 0.005

**NPS**  
θ = SHMS 14.7  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.70</u> mm		<u>0.300</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.697</u> mm		<u>0.301</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>4284</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% rl.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:16:57</u> Stop time (from RC): <u>16:14:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.5106</u> hTRIG5 rate: <u>1370</u>	hTRIG3 rate: <u>2014</u> hTRIG6 rate: <u>846</u>	hTRIG4 rate: <u>1307</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20 μA</u>	Comments: <u>#2/8</u>		Events: <u>3976259</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0</u>	Max NPS anode current (single crystal): <u>4.54</u> (μA)		

Run Number: <u>4285</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% rl.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:12</u> Stop time (from RC): <u>17:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.57e+06</u> hTRIG5 rate: <u>1306</u>	hTRIG3 rate: <u>2040</u> hTRIG6 rate: <u>836</u>	hTRIG4 rate: <u>1247</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20 μA</u>	Comments: <u>#3/8</u>		Events: <u>423164</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0</u>	Max NPS anode current (single crystal): <u>4.71</u> (μA)		

Run Number: <u>4286</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% rl.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:25</u> Stop time (from RC): <u>18:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.57e+06</u> hTRIG5 rate: <u>1356</u>	hTRIG3 rate: <u>1978</u> hTRIG6 rate: <u>872.7</u>	hTRIG4 rate: <u>1284</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20 μA</u>	Comments: <u>4/8</u>		Events: <u>426247</u> Charge: <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0</u>	Max NPS anode current (single crystal): <u>4.89</u> (μA)		

Run Number: <u>4287</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% rl.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1832</u> Stop time (from RC): <u>1844</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.58e+06</u> hTRIG5 rate: <u>1308</u>	hTRIG3 rate: <u>2044</u> hTRIG6 rate: <u>847</u>	hTRIG4 rate: <u>1251</u> <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>20 μA</u>	Comments: <u>5/8 (Stopped midway, need to reboot vme crate)</u>		Events: <u>850</u> Charge: <u>13.14 C</u>	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: 24/02/04  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

**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:

**HMS**  
 p: ~~10~~ -5.038  $\theta$ (TV): 14.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.37  
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 = 4.68 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>4288</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1903</u> Stop time (from RC): <u>2014</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.56e+06</u> hTRIG5 rate: <u>1344</u>	hTRIG3 rate: <u>2052</u> hTRIG6 rate: <u>856</u>	hTRIG4 rate: <u>1244</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>5/8 (last run void)</u>		Events: <u>52202</u> Charge: <u>78.07</u> C	Active trigger fraction (NPS Scaler Gui): <u>78.07</u> LiveTime: _____	Max NPS anode current (single crystal): <u>4.69</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4289</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2017</u> Stop time (from RC): <u>2049</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.57e+06</u> hTRIG5 rate: <u>1300</u>	hTRIG3 rate: <u>2007</u> hTRIG6 rate: <u>861</u>	hTRIG4 rate: <u>1250</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>6/8 (beam around 7min of data interrupted)</u>		Events: <u>44576</u> Charge: _____ C	Active trigger fraction (NPS Scaler Gui): _____ LiveTime: _____	Max NPS anode current (single crystal): _____ ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4290</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2113</u> Stop time (from RC): <u>2120</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.58e+06</u> hTRIG5 rate: <u>1363</u>	hTRIG3 rate: <u>2028</u> hTRIG6 rate: <u>886</u>	hTRIG4 rate: <u>1244</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>6/8 cont.</u>		Events: <u>37859</u> Charge: _____ C	Active trigger fraction (NPS Scaler Gui): _____ LiveTime: _____	Max NPS anode current (single crystal): _____ ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4291</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2240</u> Stop time (from RC): <u>2331</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.58e+06</u> hTRIG5 rate: <u>1342</u>	hTRIG3 rate: <u>2066</u> hTRIG6 rate: <u>877.9</u>	hTRIG4 rate: <u>1296</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>6/8 cont.</u>		Events: <u>38947</u> Charge: _____ C	Active trigger fraction (NPS Scaler Gui): _____ LiveTime: _____	Max NPS anode current (single crystal): <u>4.92</u> ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

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

Date: 24, 2, 10  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-40**

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

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

Purpose:

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

HMS, field,  
current OK?

yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.706</u> mm		<u>0.301</u> mm
Nomin: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>0.698</u> mm		<u>0.305</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

HMS

SHMS

NPS

p: +0.5038 θ(TV): 19.35  
From GUI Nearest 0.005

θ(TV): 30.37  
Nearest 0.005

θ = SHMS 14.07  
-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>4292</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate _____	hTRIG3 rate _____	hTRIG4 rate _____
I <sub>beam</sub> : _____ μA	Stop time (from RC): _____		_____	_____	hTRIG5 rate _____	hTRIG6 rate _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

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

Run Number: <u>4293</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>2:55:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.57x10<sup>6</sup></u>	hTRIG3 rate <u>1950</u>	hTRIG4 rate <u>1265</u>
I <sub>beam</sub> : <u>20</u> μA	Stop time (from RC): <u>3:58:13</u>		_____	_____	hTRIG5 rate <u>1317</u>	hTRIG6 rate <u>865</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: Data rate ~ 105 MB/s. Events 4.4M Charge 65.78C Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) (μA) 4.88

Run Number: <u>4294</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>3:59:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.58x10<sup>6</sup></u>	hTRIG3 rate <u>2114</u>	hTRIG4 rate <u>1322</u>
I <sub>beam</sub> : <u>20</u> μA	Stop time (from RC): <u>4:59:15</u>		_____	_____	hTRIG5 rate <u>809 135</u>	hTRIG6 rate <u>857</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: Data rate ~ 105 MB/s. Events 4.4M Charge 65.23C Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) (μA) 4.70

Run Number: <u>4295</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>+</u> PS2: <u>+</u> PS3: <u>+</u> PS4: <u>0</u> PS5: <u>+</u> PS6: <u>+</u>	Start time (from RC): <u>5:02:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.37x10<sup>6</sup></u>	hTRIG3 rate <u>1508</u>	hTRIG4 rate <u>979</u>
I <sub>beam</sub> : <u>15</u> μA	Stop time (from RC): <u>5:24:54</u>		_____	_____	hTRIG5 rate <u>886</u>	hTRIG6 rate <u>560</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low  Comments: Data rate ~ 60 MB/s Events 1.2M Charge 17.56C Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) (μA) 3.40

# p(e,e'γ) p Run Sheet

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

Date: 24 / 2 / 10  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

**Purpose:**

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

HMS, field, current OK?  
yes  no

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

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

Beam position and angle on target:

**HMS**  
p: +0.038 From GUI  
θ(TV): 19.35 Nearest 0.005

**SHMS**  
θ(TV): 30.37 Nearest 0.005

**NPS**  
θ = SHMS 14.07  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.712</u> mm		<u>0.299</u> mm
Nomin: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>0.69</u> mm		<u>0.298</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

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

Run Number: 4296  
I<sub>beam</sub>: 12 μA

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

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

Start time (from RC): 5:27:21  
Stop time (from RC): 6:01:33

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.13x10<sup>6</sup>  
hTRIG3 rate: 1257  
hTRIG4 rate: 784  
hTRIG5 rate: 604  
hTRIG6 rate: 420

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Data rate ~ 40 MB/s

Events 1.5M  
Charge 22.11C

Active trigger LiveTime fraction (NPS Scaler Gui): 0%

Max NPS anode current (single crystal): 2.04 (μA)

Run Number: 4297  
I<sub>beam</sub>: 8 μA

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

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

Start time (from RC): 6:03:06  
Stop time (from RC): \_\_\_\_\_

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.56x10<sup>6</sup>  
hTRIG3 rate: 820  
hTRIG4 rate: 541  
hTRIG5 rate: 329  
hTRIG6 rate: 224

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Coda crashed!!!  
Data rate ~ 18 MB/s

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

Active trigger LiveTime fraction (NPS Scaler Gui): 0%

Max NPS anode current (single crystal): 2.33 (μA)

Run Number: 4298  
I<sub>beam</sub>: 8 μA

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

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

Start time (from RC): 6:42:08  
Stop time (from RC): 6:50:33

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.62x10<sup>6</sup>  
hTRIG3 rate: 862  
hTRIG4 rate: 560  
hTRIG5 rate: 326  
hTRIG6 rate: 221

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Data rate ~ 20 MB/s

Events 0.25M  
Charge 3.53C

Active trigger LiveTime fraction (NPS Scaler Gui): 0%

Max NPS anode current (single crystal): 2.36 (μA)

Run Number: 4299  
I<sub>beam</sub>: 20 μA

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

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

Start time (from RC): 6:54:34  
Stop time (from RC): 7:14:42

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 2.57x10<sup>6</sup>  
hTRIG3 rate: 1639  
hTRIG4 rate: 1238  
hTRIG5 rate: 1299  
hTRIG6 rate: 879

Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Data rate ~ 100 MB/s

Events 0.42M  
Charge 8.7C

Active trigger LiveTime fraction (NPS Scaler Gui): 0%

Max NPS anode current (single crystal): 4.83 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 24 / 2 / 10  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-46**

E<sub>beam</sub>: 10.538 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>1.71</u> mm		<u>0.307</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.695</u> mm		<u>0.302</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +(5.038) θ(TV): 10.35  
From GUI Nearest 0.005

θ(TV): 33.81  
Nearest 0.005

θ = SHMS 17.51  
-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:**

4300

I<sub>beam</sub>: 40 μA

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

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

Start time (from RC):

7:30:56

Stop time (from RC):

8:31

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.28x10<sup>6</sup>

hTRIG5 rate

428

hTRIG3 rate

1428

hTRIG6 rate

310

hTRIG4 rate

1036

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 1/4  
Data rate ~ 40 MB/s.

Events 3.2M  
Charge 113μC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.49 (μA)

**Run Number:**

4301

I<sub>beam</sub>: 40 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):

8:32:41

Stop time (from RC):

9:34:15

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.32e6

hTRIG5 rate

480

hTRIG3 rate

1551

hTRIG6 rate

349

hTRIG4 rate

625

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 2/4

Events 3.0M  
Charge 113μC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.45 (μA)

**Run Number:**

4302

I<sub>beam</sub>: 40 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):

9:34:04

Stop time (from RC):

10:37:39

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.28e6

hTRIG5 rate

470

hTRIG3 rate

1486

hTRIG6 rate

325

hTRIG4 rate

980

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 3/4

Events 3.6M  
Charge 138μC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.46 (μA)

**Run Number:**

4303

I<sub>beam</sub>: 40 μA

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

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

Start time (from RC):

10:38:35

Stop time (from RC):

11:47:31

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.3e6

hTRIG5 rate

462

hTRIG3 rate

1496

hTRIG6 rate

331

hTRIG4 rate

1626

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4/4

Events 3.3M  
Charge 122μC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

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

# p(e,e'γ) p Run Sheet

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

Date: 24 / 12 / 10  
yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4b**

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>1.711</u>	mm	<u>0.305</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.697</u>	mm	<u>0.296</u> mm
Nomin:		Nomin:

**HMS**  
p: +0.5038 θ(TV): 19.55  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 33.75  
Nearest 0.005

**NPS**  
θ = SHMS 17.49  
-16.30° Nearest 0.005

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

Run Number: 4304  
I<sub>beam</sub>: 30 μA

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>11:49:32</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>9.2e5</u>	hTRIG3 rate: <u>1122</u>	hTRIG4 rate: <u>767</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>12:11:05</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>280</u>	hTRIG6 rate: <u>206</u>	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: 20 nA run 25 MB/s

Events <u>911k</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>2.64</u> (μA)
Charge <u>31 μC</u>		

Run Number: 4305  
I<sub>beam</sub>: 20 μA

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>12:12:00</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>5.6e5</u>	hTRIG3 rate: <u>753</u>	hTRIG4 rate: <u>542</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>12:33</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>153</u>	hTRIG6 rate: <u>122</u>	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: 20 nA 13 MB/s

Events <u>561k</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>2.04</u> (μA)
Charge <u>19 μC</u>		

Run Number: 4306  
I<sub>beam</sub>: 10 μA

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>12:35:17</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>2.5e5</u>	hTRIG3 rate: <u>402</u>	hTRIG4 rate: <u>291</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC):	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>72</u>	hTRIG6 rate: <u>57</u>	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> Dummy 10cm	PS3: <u>-1</u>		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> Optics#1 8cm	PS4: <u>0</u>					
<input type="checkbox"/> C 0.5% r.l.l	PS5: <u>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: 4 MB/s

Events <u>64k</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>1.71</u> (μA)
Charge <u>22 μC</u>		

Run Number: 4308  
I<sub>beam</sub>: 40 μA

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>-1</u>	Start time (from RC): <u>13:22:19</u>	<input checked="" type="checkbox"/> Settings Verified?	hTRIG1 rate: <u>1.29e6</u>	hTRIG3 rate: <u>1470</u>	hTRIG4 rate: <u>1024</u>
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>	Stop time (from RC): <u>13:37:40</u>	<input checked="" type="checkbox"/> HV OK?	hTRIG5 rate: <u>470</u>	hTRIG6 rate: <u>346</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>-1</u>					
<input type="checkbox"/>	PS6: <u>-1</u>					

coin\_sparse  coin  coin\_sparse\_low   
Comments: run 4307 in junk (H=0) 125 MB/s

Events <u>436k</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.5</u> (μA)
Charge <u>33 μC</u>		

DATA rate > 200 MB/s during 4307

# p(e,e') p Run Sheet

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

Date: 24 / 12 / 10  
 yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-46

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

HMS, field,  
 current OK?  
 yes  no

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

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: +105.08 From GUI    θ(TV): 19.35 Nearest 0.005

**SHMS**  
 θ(TV): 33.79 Nearest 0.005

**NPS**  
 θ = SHMS 17.49  
 -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 = 668 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: 4309  
 I<sub>beam</sub>: 30 μA

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

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

Start time (from RC): 13:47:26  
 Stop time (from RC): 14:08:20

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 126 hTRIG3 rate: 1212 hTRIG4 rate: 708  
 hTRIG5 rate: 319 hTRIG6 rate: 213

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 25 MB/A

Events 845k Charge 33 μC Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 4.76 (μA)

Run Number: 4311  
 I<sub>beam</sub>: 20 μA

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

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

Start time (from RC): 14:11:34  
 Stop time (from RC): 14:31:54

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 6.5e5 hTRIG3 rate: 841 hTRIG4 rate: 500  
 hTRIG5 rate: 148 hTRIG6 rate: 106

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 12.5 MB/A

Events 593k Charge 22 μC Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 2.9 (μA)

Run Number: 4312  
 I<sub>beam</sub>: 20 μA

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

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

Start time (from RC): 14:41:56  
 Stop time (from RC): 15:44:36

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.9e6 hTRIG3 rate: 2060 hTRIG4 rate: 1308  
 hTRIG5 rate: 926 hTRIG6 rate: 590

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 1/8

Events 3.9M Charge 58 μC Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 2.91 (μA)

Run Number: 4313  
 I<sub>beam</sub>: 20 μA

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

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

Start time (from RC): 15:45:23  
 Stop time (from RC): 1647

Settings Verified?  
 HV OK?  
 50k OK?

hTRIG1 rate: 1.93e6 hTRIG3 rate: 2046 hTRIG4 rate: 1281  
 hTRIG5 rate: 876 hTRIG6 rate: 580

Data ok  
 Junk

coin\_sparse   
 coin   
 coin\_sparse\_low

Comments: 2/8

Events 44428 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 3.0 (μA)

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

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

Date: 24/10/10  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-46**

**Purpose:**

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

HMS, field, current OK?

yes  no

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

Raster:  On  Off  
Size: 2 x 2

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: +/- -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

$\theta$ (TV): 33.81  
Nearest 0.005

$\theta$  = SHMS -16.30  
Nearest 0.005

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

Run Number: <u>4314</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:44</u> Stop time (from RC): <u><del>1805</del> 1805</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.95e+06</u> hTRIG5 rate: <u>901</u>	hTRIG3 rate: <u>2036</u> hTRIG6 rate: <u>579</u>	hTRIG4 rate: <u>1281</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	--	---	---	---	--

coin\_sparse  coin  coin\_sparse\_low  Comments: 3/8 Events 4346157 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) 3.04 ( $\mu$ A)

Run Number: <u>4315</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1806</u> Stop time (from RC): <u>1928</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.92e+06</u> hTRIG5 rate: <u>884.9</u>	hTRIG3 rate: <u>1941.7</u> hTRIG6 rate: <u>561.2</u>	hTRIG4 rate: <u>1289.7</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	---	---	--

coin\_sparse  coin  coin\_sparse\_low  Comments: 4/8 Events 4083365 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) 3.4 ( $\mu$ A)

Run Number: <u>4316</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>1929</u> Stop time (from RC): <u>2030</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.94e+06</u> hTRIG5 rate: <u>884</u>	hTRIG3 rate: <u>2000</u> hTRIG6 rate: <u>587</u>	hTRIG4 rate: <u>1268</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	---	---	---

coin\_sparse  coin  coin\_sparse\_low  Comments: 5/8 Events 4316446 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) 2.96 ( $\mu$ A)

Run Number: <u>4317</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2031</u> Stop time (from RC): <u>2135</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.95e+06</u> hTRIG5 rate: <u>880</u>	hTRIG3 rate: <u>2027</u> hTRIG6 rate: <u>564</u>	hTRIG4 rate: <u>1240</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	---	---	---

coin\_sparse  coin  coin\_sparse\_low  Comments: 6/8 Events 4321240 Charge C Active trigger LiveTime fraction (NPS Scaler Gui) Max NPS anode current (single crystal) 2.95 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

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

Date: 24.02.10  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-46**

**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:

**HMS**  
p: +/- -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 33.81  
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 = 0 Amp  
NPS Upstream Corr. I = 0 Amp

Run Number: <u>4318</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2136</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.92e+06</u>	hTRIG3 rate <u>2004</u>	hTRIG4 rate <u>1294</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>7/8</u>		Stop time (from RC): <u>2240</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>860</u>	hTRIG6 rate <u>566</u>	Max NPS anode current (single crystal) <u>2.95</u> (μA)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>4161149</u> Charge <u>C</u>		Active trigger fraction (NPS Scaler Gui)	LiveTime			

Run Number: <u>4319</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2242</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.92e+06</u>	hTRIG3 rate <u>2028</u>	hTRIG4 rate <u>1271</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>8/8</u>		Stop time (from RC): <u>2350</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>850</u>	hTRIG6 rate <u>558</u>	Max NPS anode current (single crystal) <u>2.96</u> (μA)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>4208013</u> Charge <u>C</u>		Active trigger fraction (NPS Scaler Gui)	LiveTime			

Run Number: <u>4320</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2353</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.51e+06</u>	hTRIG3 rate <u>1508</u>	hTRIG4 rate <u>486</u>
I <sub>beam</sub> : <u>15</u> μA	Comments: <u>Data rate ~ 42 MB/s.</u>		Stop time (from RC): <u>00:14:51</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>522</u>	hTRIG6 rate <u>367</u>	Max NPS anode current (single crystal) <u>2.54</u> (μA)
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>1.3M</u> Charge <u>18.41C</u>		Active trigger fraction (NPS Scaler Gui)	LiveTime			

Run Number: <u>4321</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>/</u> PS2: <u>/</u> PS3: <u>/</u> PS4: <u>0</u> PS5: <u>/</u> PS6: <u>/</u>	Start time (from RC): <u>00:16:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.19x10<sup>6</sup></u>	hTRIG3 rate <u>1212</u>	hTRIG4 rate <u>825</u>
I <sub>beam</sub> : <u>12</u> μA	Comments: <u>Data rate ~ 27 MB/s</u>		Stop time (from RC): <u>00:47:22</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>375</u>	hTRIG6 rate <u>248</u>	Max NPS anode current (single crystal) <u>2.5</u> (μA)
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> in_sparse_low <input type="checkbox"/>	Events <u>1.41M</u> Charge <u>20.52C</u>		Active trigger fraction (NPS Scaler Gui)	LiveTime			



# p(e,e'γ) p Run Sheet

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

Date: 24 / 2 / 11  
 yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-46

Purpose:

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

HMS, field, current OK?  
 yes  no

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

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

Beam position and angle on target:

**HMS**  
 p: +0.5038 θ(TV): 10.35  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 33.81  
Nearest 0.005

**NPS**  
 θ = SHMS 17.51  
 -16.30° Nearest 0.005

3H07A	X	Y
<u>1.694</u> mm		<u>0.305</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>

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>4322</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>CODA crashed!!!</u>		Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	

Run Number: <u>4323</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>/</u> PS3: _____ PS4: <u>0</u> PS5: _____ PS6: <u>/</u>	Start time (from RC): <u>00:53:10</u> Stop time (from RC): <u>1:36:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>7.6x10<sup>5</sup></u> hTRIG3 rate <u>813</u> hTRIG4 rate <u>531</u> hTRIG5 rate <u>188</u> hTRIG6 rate <u>137</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments: <u>Data rate ~ 14 MB/s.</u>		Events <u>1.3M</u> Charge <u>9.32C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0.7</u>	Max NPS anode current (single crystal) (μA) <u>2.85</u>	

Run Number: <u>4324</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="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: <u>/</u> PS3: <u>/</u> PS4: <u>2</u> PS5: _____ PS6: <u>/</u>	Start time (from RC): <u>1:38:49</u> Stop time (from RC): <u>1:55:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.92x10<sup>6</sup></u> hTRIG3 rate <u>2004</u> hTRIG4 rate <u>1261</u> hTRIG5 rate <u>836</u> hTRIG6 rate <u>574</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>Data rate ~ 115 MB/s.</u>		Events <u>0.4M</u> Charge <u>17.7C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0.7</u>	Max NPS anode current (single crystal) (μA) <u>2.81</u>	

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 <sub>beam</sub> : _____ μA	Comments: _____		Events _____ Charge _____	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	

# p(e,e'γ) p Run Sheet

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

Date: 24/2/11  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-40**

Purpose:

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

HMS, field, current OK?  
yes  no

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

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

**HMS**  
p: +10.5038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.38  
Nearest 0.005

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

3H07A	X	Y
<u>1.699</u>	mm	<u>0.298</u> mm
Nomin:	<u>1.7</u>	Nomin: <u>0.3</u>
3H07C	X	Y
<u>0.695</u>	mm	<u>0.291</u> mm
Nomin:	<u>0.7</u>	Nomin: <u>0.3</u>

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>4325</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: / PS2: / PS3: / PS4: 0 PS5: / PS6: /	Start time (from RC): <u>2:12:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3x10<sup>6</sup></u>	hTRIG3 rate <u>1500</u>	hTRIG4 rate <u>1038</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC): <u>3:16:49</u>		hTRIG5 rate <u>881</u>	hTRIG6 rate <u>554</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>1/4 Data rate ~ 60 MB/s</u>			Events <u>3.5M</u> Charge <u>129 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.42</u> (μA)	

Run Number: <u>4326</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: / PS2: / PS3: / PS4: 0 PS5: / PS6: /	Start time (from RC): <u>3:17:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.3x10<sup>6</sup></u>	hTRIG3 rate <u>1489</u>	hTRIG4 rate <u>1040</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC):		hTRIG5 rate <u>831</u>	hTRIG6 rate <u>586</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2/4 CODA crashed!!! Data rate ~ 60 MB/s</u>			Events <u>1.8M</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.38</u> (μA)	

Run Number: <u>4327</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate	hTRIG3 rate	hTRIG4 rate
I <sub>beam</sub> : <u>40</u> μA			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 type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>CODA crashed!!!</u>			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)	

Run Number: <u>4328</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: / PS2: / PS3: / PS4: 0 PS5: / PS6: /	Start time (from RC): <u>4:18:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.29x10<sup>6</sup></u>	hTRIG3 rate <u>1526</u>	hTRIG4 rate <u>1028</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC): <u>4:51:58</u>		hTRIG5 rate <u>787</u>	hTRIG6 rate <u>567</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>2/4 Data rate ~ 60 MB/s</u>			Events <u>1.8M</u> Charge <u>15.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.37</u> (μA)	

# p(e,e'γ) p Run Sheet

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

Date: 24 21 11  
yy mm dd

Initials: AS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-40**

Purpose:

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

HMS, field, current OK?

yes  no

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

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>1.704</u> mm		<u>0.297</u> mm
Nomin: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>0.702</u> mm		<u>0.308</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

HMS

SHMS

NPS

p: +05-038 θ(TV): 19.35  
From GUI Nearest 0.005

θ(TV): 30.38  
Nearest 0.005

θ = SHMS -16.30°  
Nearest 0.005

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

Run Number:

4329

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

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

Start time (from RC):

4:53:14

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.26x10<sup>6</sup>

hTRIG3 rate

1468

hTRIG4 rate

1002

I<sub>beam</sub>: 40 μA

Stop time (from RC):

5:59:08

hTRIG5 rate

800

hTRIG6 rate

553

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 3/4  
Data rate ~ 60 MB/s.

Events 3.5M  
Charge 129 C

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 5.57 (μA)

Run Number:

4330

- 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):

6:00:04

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

2.25x10<sup>6</sup>

hTRIG3 rate

1474

hTRIG4 rate

1029

I<sub>beam</sub>: 40 μA

Stop time (from RC):

7:03:10

hTRIG5 rate

824

hTRIG6 rate

553

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 4/4  
Data rate ~ 60 MB/s.

Events 3.4M  
Charge 128 C

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 5.33 (μA)

Run Number:

4331

- 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):

7:05:49

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.86x10<sup>6</sup>

hTRIG3 rate

1134

hTRIG4 rate

784

I<sub>beam</sub>: 30 μA

Stop time (from RC):

hTRIG5 rate

477

hTRIG6 rate

369

Data ok

Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: CODA crashed!!!  
Data rate ~ 34 MB/s.

Events 0.9M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 4.10 (μA)

Run Number:

4332

- 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):

7:33:54

Settings Verified?

HV OK?

50k OK?

hTRIG1 rate

1.25x10<sup>6</sup>

hTRIG3 rate

764

hTRIG4 rate

535

I<sub>beam</sub>: 20 μA

Stop time (from RC):

8:07:38

hTRIG5 rate

253

hTRIG6 rate

202

Data ok

Junk

coin\_sparse   
in   
in\_sparse\_low

Comments: Data rate ~ 18 MB/s.

Events 0.95M  
Charge 35 C

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.03 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 24/2/11  
yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-4a

**Purpose:**

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

HMS, field,  
current OK?  
yes  no

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

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

Beam position and angle on target:

**HMS**  
p: +105.038 θ(TV): 19.25  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.38  
Nearest 0.005

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

3H07A	X	Y
<u>1.696</u>	mm	<u>0.306</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.700</u>	mm	<u>0.301</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>4333</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:09:12</u> Stop time (from RC): <u>8:50:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.425</u> hTRIG5 rate <u>106</u>	hTRIG3 rate <u>412</u> hTRIG6 rate <u>82</u>	hTRIG4 rate <u>291</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>~ 6 MB/s</u>	Events <u>688k</u> Charge <u>22μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>2.3</u> (μA)
----------------------------	--	--	---	---	--	---	---	--	------------------------------	--	--	---

Run Number: <u>4334</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>8:52:59</u> Stop time (from RC): <u>9:10:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.366</u> hTRIG5 rate <u>803</u>	hTRIG3 rate <u>1524</u> hTRIG6 rate <u>588</u>	hTRIG4 rate <u>1050</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>~ 126 MB/s</u>	Events <u>457k</u> Charge <u>34μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.53</u> (μA)
----------------------------	--	--	---	---	--	---	--	--	--------------------------------	--	--	--

Run Number: <u>4335</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:24:47</u> Stop time (from RC): <u>9:48:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.126</u> hTRIG5 rate <u>625</u>	hTRIG3 rate <u>1248</u> hTRIG6 rate <u>388</u>	hTRIG4 rate <u>707</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>~ 40 MB/s</u>	Events <u>682k</u> Charge <u>26μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>7.73</u> (μA)
----------------------------	--	---	---	---	--	---	---	--	-------------------------------	--	--	--

Run Number: <u>4336</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:50:38</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>1.4826</u> hTRIG5 rate <u>298</u>	hTRIG3 rate <u>834</u> hTRIG6 rate <u>185</u>	hTRIG4 rate <u>498</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>17 MB/s</u>	Events <u>493k</u> Charge <u>18μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.53</u> (μA)
----------------------------	--	---	---	---	---	--	---	--	-----------------------------	--	--	--

# p(e,e'γ) p Run Sheet

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

Date: 24/2/11  
yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

Kinematics: KinC\_x 60-4a

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>1.701</u>	mm	<u>0.295</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.701</u>	mm	<u>0.301</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.008 θ(TV): 19.85  
From GUI Nearest 0.005

θ(TV): 80.38  
Nearest 0.005

θ = SHMS  
-16.30°  
Nearest 0.005

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

Run Number: <u>4337</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:21:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.97e6</u>	hTRIG3 rate <u>2042</u>	hTRIG4 rate <u>1304</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>1/8</u> <u>~ 110 MB/s</u>		Stop time (from RC): <u>11:26:40</u>	Events <u>4.1M</u> Charge <u>62 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>4.89</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>4338</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>11:27:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.57e6</u>	hTRIG3 rate <u>2023</u>	hTRIG4 rate <u>1310</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>2/8</u> <u>~ 105 MB/s</u>		Stop time (from RC): <u>12:50:49</u>	Events <u>4.4M</u> Charge <u>67 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>4.8</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>4339</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:31:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.56e6</u>	hTRIG3 rate <u>1987</u>	hTRIG4 rate <u>1275</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>3/8</u>		Stop time (from RC): <u>13:33:15</u>	Events <u>4.3M</u> Charge <u>64 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>4.86</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>4340</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:34:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.86e6</u>	hTRIG3 rate <u>1961</u>	hTRIG4 rate <u>1272</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>4/8</u> <u>~ 100 MB/s</u>		Stop time (from RC): <u>14:34:23</u>	Events <u>4.2M</u> Charge <u>68 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>4.74</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' $\gamma$ ) p Run Sheet

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

Date: 24 / 12 / 11  
yy mm dd

Initials: SCA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60\_4a**

Purpose:

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

HMS, field,  
current OK?

yes  no

E<sub>beam</sub>: 10.579 GeV

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

Beam position and angle on target:

3H07A	X	Y
<u>1.699</u> mm		<u>0.296</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.701</u> mm		<u>0.304</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

$\theta$ (TV): 30.38  
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:

4341

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

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

Start time (from RC):

14:36:13

Stop time (from RC):

15:49:59

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

hTRIG1 rate  
2.57e6

hTRIG3 rate  
2057

hTRIG4 rate  
1278

hTRIG5 rate  
1359

hTRIG6 rate  
838

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 5/8  
tipper beam

Events 3.35M  
Charge 55 nC

Active trigger LiveTime fraction (NPS Scaler Gui)  
0%

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

Run Number:

4342

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

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

Start time (from RC):

15:50:56

Stop time (from RC):

16:51

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

hTRIG1 rate  
2.57e6

hTRIG3 rate  
2063

hTRIG4 rate  
1297

hTRIG5 rate  
1334

hTRIG6 rate  
834

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 6/8

Events 4.32M  
Charge 64 nC

Active trigger LiveTime fraction (NPS Scaler Gui)  
0%

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

Run Number:

4343

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

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

Start time (from RC):

16:52

Stop time (from RC):

17:55

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

hTRIG1 rate  
2.56e6

hTRIG3 rate  
2002

hTRIG4 rate  
1271

hTRIG5 rate  
1226

hTRIG6 rate  
856

- Data ok
- Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 7/8

Events 4.0M  
Charge 54 nC

Active trigger LiveTime fraction (NPS Scaler Gui)  
0%

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

Run Number:

4344

- 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):

17:55

Stop time (from RC):

18:56

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

hTRIG1 rate  
2.56e6

hTRIG3 rate  
2033

hTRIG4 rate  
1320

hTRIG5 rate  
1317

hTRIG6 rate  
843

- Data ok
- Junk

coin\_sparse   
in   
coin\_sparse\_low

Comments: 8/8

Events 4.1M  
Charge 61 nC

Active trigger LiveTime fraction (NPS Scaler Gui)  
0%

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

# p(e,e'γ) p Run Sheet

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

Date: 24/12/11  
yy mm dd

Initials: mk

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

Purpose:

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

HMS, field, current OK?  
yes  no

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

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

**HMS**  
p: +/- -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.375  
Nearest 0.005

**NPS**  
θ = SHMS 14.075  
-16.30° Nearest 0.005

3H07A	X	Y
	<u>1.70</u> mm	<u>0.29</u> mm
Nomin:	Nomin:	
3H07C	X	Y
	<u>0.69</u> mm	<u>0.29</u> mm
Nomin:	Nomin:	

Collimator: HMS: Large  Sieve  NPS Sweep Magnet I = 467 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4345</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:57</u> Stop time (from RC): <u>19:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.34 · 10<sup>6</sup></u> hTRIG5 rate: <u>825</u>	hTRIG3 rate: <u>1438</u> hTRIG6 rate: <u>573</u>	hTRIG4 rate: <u>967</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> μA	Comments:		Events <u>1m</u> Charge <u>16mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) <u>3.8</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4346</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:21</u> Stop time (from RC): <u>19:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.10 · 10<sup>6</sup></u> hTRIG5 rate: <u>589</u>	hTRIG3 rate: <u>1163</u> hTRIG6 rate: <u>403</u>	hTRIG4 rate: <u>779</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>12</u> μA	Comments:		Events <u>1.3m</u> Charge <u>20mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) <u>2.84</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4347</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:54</u> Stop time (from RC): <u>20:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.54 · 10<sup>6</sup></u> hTRIG5 rate: <u>291</u>	hTRIG3 rate: <u>838</u> hTRIG6 rate: <u>217</u>	hTRIG4 rate: <u>515</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8</u> μA	Comments:		Events <u>1.2m</u> Charge <u>18mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) <u>2.56</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4348</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:37</u> Stop time (from RC): <u>20:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.57 · 10<sup>6</sup></u> hTRIG5 rate: <u>1337</u>	hTRIG3 rate: <u>2033</u> hTRIG6 rate: <u>838</u>	hTRIG4 rate: <u>1282</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> μA	Comments:		Events <u>300k</u> Charge <u>13mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) <u>4.76</u> (μA)		
coin_sparse <input type="checkbox"/> in <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

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

Date: 24 / 21 / 11  
yy mm dd

Initials: MK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-46**

Purpose:

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

HMS, field, current OK?

yes  no

JAC

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

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>2.64</u>	mm	<u>0.29</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +/- -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

θ(TV): 33.81  
Nearest 0.005

θ = SHMS 17.51  
-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>4349</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:16</u> Stop time (from RC): <u>22:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.25·10<sup>6</sup></u> hTRIG5 rate <u>443</u>	hTRIG3 rate <u>1469</u> hTRIG6 rate <u>346</u>	hTRIG4 rate <u>985</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	--	---	--

coin\_sparse  coin  coin\_sparse\_low  Comments: \_\_\_\_\_

Events 3.2M Charge 17.7C Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 3.36 (μA)

Run Number: <u>4350</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:22</u> Stop time (from RC): <u>23:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.28·10<sup>6</sup></u> hTRIG5 rate <u>471</u>	hTRIG3 rate <u>1490</u> hTRIG6 rate <u>342</u>	hTRIG4 rate <u>1023</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	--	---	---

coin\_sparse  coin  coin\_sparse\_low  Comments: \_\_\_\_\_

Events 3M Charge 11.1nC Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 3.38 (μA)

Run Number: <u>4351</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:42</u> Stop time (from RC): <u>00:54:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.30·10<sup>6</sup></u> hTRIG5 rate <u>466</u>	hTRIG3 rate <u>1511</u> hTRIG6 rate <u>325</u>	hTRIG4 rate <u>1041</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	--	---	--	---	---

coin\_sparse  coin  coin\_sparse\_low  Comments: \_\_\_\_\_

Events 3.8M Charge 140nC Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 3.47 (μA)

Run Number: <u>4352</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:55:20</u> Stop time (from RC): <u>02:06:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.28e<sup>6</sup></u> hTRIG5 rate <u>481</u>	hTRIG3 rate <u>1502</u> hTRIG6 rate <u>360</u>	hTRIG4 rate <u>1015</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------------------	--	---	---	---	--	---	---

coin\_sparse  in  coin\_sparse\_low  Comments: \_\_\_\_\_

Events 3.8M Charge 141nC Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 3.52 (μA)



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

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

Date: 20240212  
yy mm dd

Initials: JPL

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60.46**

E<sub>beam</sub>: 10.538 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>1.68</u>	mm	<u>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.69</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +5.038  $\theta$ (TV): 19.345  
From GUI Nearest 0.005

$\theta$ (TV): 33.810  
Nearest 0.005

$\theta$  = SHMS 17.51  
-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>4353</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:08:23</u>	Stop time (from RC): <u>02:31:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>9.28e5</u>	hTRIG3 rate: <u>1164</u>	hTRIG4 rate: <u>804</u>
I <sub>beam</sub> : <u>30</u> $\mu$ A	Comments:			Events <u>1.02M</u> Charge <u>37mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>2.67</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>4354</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:33:39</u>	Stop time (from RC): <u>03:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>5.78e5</u>	hTRIG3 rate: <u>798</u>	hTRIG4 rate: <u>555</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:			Events <u>932K</u> Charge <u>32mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>2.19</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>4355</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:05:37</u>	Stop time (from RC): <u>03:50:46</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.55e5</u>	hTRIG3 rate: <u>407</u>	hTRIG4 rate: <u>297</u>
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:			Events <u>731K</u> Charge <u>24mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>2.59</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

Run Number: <u>4356</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>03:53</u>	Stop time (from RC): <u>04:11:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.34e6</u>	hTRIG3 rate: <u>1539</u>	hTRIG4 rate: <u>1069</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:			Events <u>482K</u> Charge <u>36mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>3.19</u> ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>								

# p(e,e'γ) p Run Sheet

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

Date: 24/02/12  
yy mm dd

Initials: JR

Use a separate sheet for each configuration.

**Kinematics: KinC\_x6046**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10,538 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>1,709</u>	mm	<u>0,299</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0,69</u>	mm	<u>0,30</u> mm
Nomin:		Nomin:

**HMS**

**SHMS**

**NPS**

p: +6.5038 From GUI  
θ(TV): 19,345 Nearest 0.005

θ(TV): 33,810 Nearest 0.005

θ = SHMS 12,51  
-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>4357</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:21:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.12e6</u>	hTRIG3 rate <u>1256</u>	hTRIG4 rate <u>737</u>
I <sub>beam</sub> : <u>30</u> μA			Stop time (from RC): <u>04:42:34</u>		hTRIG5 rate <u>330</u>	hTRIG6 rate <u>210</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 818k Active trigger LiveTime fraction (NPS Scaler Gui) 10% Max NPS anode current (single crystal) 3.81 (μA)  
Charge 27nC

Run Number: <u>4358</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:44:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.58e5</u>	hTRIG3 rate <u>879</u>	hTRIG4 rate <u>509</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>05:56:27</u>		hTRIG5 rate <u>158</u>	hTRIG6 rate <u>111</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

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

Events 642k Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 3.06 (μA)  
Charge 24nC

Run Number: <u>4359</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:15:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.91e6</u>	hTRIG3 rate <u>2067</u>	hTRIG4 rate <u>1282</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>06:23:39</u>		hTRIG5 rate <u>882</u>	hTRIG6 rate <u>582</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 18

Events 4.5m Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 3.10 (μA)  
Charge C

Run Number: <u>4360</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:24:42</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>2073</u>	hTRIG4 rate <u>1304</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>07:34:57</u>		hTRIG5 rate <u>907</u>	hTRIG6 rate <u>500</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 218

Events 4.8m Active trigger LiveTime fraction (NPS Scaler Gui) 0% Max NPS anode current (single crystal) 2.89 (μA)  
Charge C

# p(e,e'γ) p Run Sheet

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

Date: 24 / 02 / 12  
yy mm dd

Initials: OR

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60.4**

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

Raster:  On  Off  
Size: 2x2 mm

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

HMS, field, current OK?  
yes  no

**HMS**  
p: +/- 5.038 From GUI  
θ(TV): 19.345 Nearest 0.005

**SHMS**  
θ(TV): 33.810 Nearest 0.005

**NPS**  
θ = SHMS 17.51  
-16.30° Nearest 0.005

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>0.70</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

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

Run Number: <u>4361</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.54e6</u>	hTRIG3 rate <u>2102</u>	hTRIG4 rate <u>1316</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>3/8</u>		Stop time (from RC): <u>8:38:30</u>	Events <u>4.1M</u> Charge <u>61 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>2.72</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>4362</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:39:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.926</u>	hTRIG3 rate <u>2036</u>	hTRIG4 rate <u>1273</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>4/8</u>		Stop time (from RC): <u>9:40:08</u>	Events <u>4.36M</u> Charge <u>65 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.10</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>4363</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:40:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.93e6</u>	hTRIG3 rate <u>2070</u>	hTRIG4 rate <u>1319</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>5/8</u>		Stop time (from RC): <u>10:45:16</u>	Events <u>4.38M</u> Charge <u>65 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.09</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>4364</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>10:46:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.91e6</u>	hTRIG3 rate <u>2060</u>	hTRIG4 rate <u>1266</u>
I <sub>beam</sub> : <u>20</u> μA	Comments: <u>6/8</u>		Stop time (from RC): <u>11:49:49</u>	Events <u>4.41M</u> Charge <u>65 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.02</u> (μA)	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> n_sparse_low <input type="checkbox"/>						<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

# p(e,e'γ) p Run Sheet

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

Date: 24/12/12  
yy mm dd

Initials: SLB

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-48**

Purpose:

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

HMS, field, current OK?

yes  no

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

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

Beam position and angle on target:

3H07A	X	Y
<u>1.700</u> mm		<u>0.307</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.700</u> mm		<u>0.301</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.5038 From GUI θ(TV): 19.34 Nearest 0.005

θ(TV): 33.81 Nearest 0.005

θ = SHMS 17.5  
-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: 4365

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

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

Start time (from RC): 11:50:36

Stop time (from RC): 12:27:26

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

hTRIG1 rate 1.91e6

hTRIG5 rate 868

hTRIG3 rate 2023

hTRIG6 rate 588

hTRIG4 rate 1282

- Data ok
- Junk

I<sub>beam</sub>: 20 μA

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Beam problems, ended run short 7/8 ~ 20 min of 1 hr, MCC wants to work on beam

Events 1.4M  
Charge 20 nC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.20 (μA)

Run Number: 4366

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

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

Start time (from RC): 12:34:49

Stop time (from RC): 13:19:20

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

hTRIG1 rate 1.92e6

hTRIG5 rate 878

hTRIG3 rate 2084

hTRIG6 rate 575

hTRIG4 rate 1289

- Data ok
- Junk

I<sub>beam</sub>: 20 μA

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 7/8 last ~ 40 min

Events 3.39M  
Charge 50 nC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.16 (μA)

Run Number: 4367

- 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): 13:20:11

Stop time (from RC): 14:23:44

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

hTRIG1 rate 1.89e6

hTRIG5 rate 871

hTRIG3 rate 2032

hTRIG6 rate 571

hTRIG4 rate 1303

- Data ok
- Junk

I<sub>beam</sub>: 20 μA

coin\_sparse   
coin   
coin\_sparse\_low

Comments: 8/8

Events 4.28M  
Charge 63 nC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.01 (μA)

Run Number: 4368

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

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

Start time (from RC): 14:26:08

Stop time (from RC): 14:50:18

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

hTRIG1 rate 1.5e6

hTRIG5 rate 556

hTRIG3 rate 1602

hTRIG6 rate 368

hTRIG4 rate 1003

- Data ok
- Junk

I<sub>beam</sub>: 15 μA

coin\_sparse   
in   
n\_sparse\_low

Comments: 42 MB/s

Events 1.22M  
Charge 17 nC

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 2.66 (μA)

# p(e,e'γ) p Run Sheet

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

Date: 22 / 2 / 12  
yy mm dd

Initials: SCB

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60-46

**Purpose:**

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

HMS, field, current OK?  
yes  no

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

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

**HMS**  
p: +0.5038 From GUI  
θ(TV): 15.74 Nearest 0.005

**SHMS**  
θ(TV): 37.81 Nearest 0.005

**NPS**  
θ = SHMS 17.5  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.705</u> mm		<u>0.296</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.700</u> mm		<u>0.299</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>4369</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:51:48</u> Stop time (from RC): <u>15:23:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.1e6</u> hTRIG3 rate: <u>1202</u> hTRIG4 rate: <u>800</u> hTRIG5 rate: <u>328</u> hTRIG6 rate: <u>238</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>30MB/s</u>	Events <u>1.34M</u> Charge <u>19μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) ( <u>2.41</u> μA)
-------------------------	--	---	---	---	--	--	--	-------------------------	---	--	--

Run Number: <u>4370</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:25:33</u> Stop time (from RC): <u>15:53:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>7.5e5</u> hTRIG3 rate: <u>844</u> hTRIG4 rate: <u>556</u> hTRIG5 rate: <u>180</u> hTRIG6 rate: <u>138</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>~ 25 min of beam of 40 μA Beam issues @ end 15 MB/s</u>	Events <u>511k</u> Charge <u>7.5μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) ( <u>2.24</u> μA)
-------------------------	--	---	---	---	---	--	--	--	---	--	--

Run Number: <u>4371</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:55:49</u> Stop time (from RC): <u>16:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>7.5e5</u> hTRIG3 rate: <u>851</u> hTRIG4 rate: <u>561</u> hTRIG5 rate: <u>199</u> hTRIG6 rate: <u>138</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>442k</u> Charge <u>6.3μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) ( <u>2.29</u> μA)
-------------------------	--	---	--	---	---	--	--	-----------	---	--	--

Run Number: <u>4372</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:13</u> Stop time (from RC): <u>16:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.9e6</u> hTRIG3 rate: <u>2083</u> hTRIG4 rate: <u>1334</u> hTRIG5 rate: <u>902</u> hTRIG6 rate: <u>591</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>358k</u> Charge <u>15.4μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal) ( <u>3.17</u> μA)
-------------------------	--	---	---	--	---	--	--	-----------	--	--	--

# p(e,e'γ) p Run Sheet

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

Date: 24, 02, 12  
yy mm dd

Initials: RMB

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 60 4a

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

HMS, field, current OK?  
 yes  no

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

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: +/- 5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.375  
Nearest 0.005

**NPS**  
 θ = SHMS 14.075  
-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>4373</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1e6</u>	hTRIG3 rate <u>1533</u>	hTRIG4 rate <u>1041</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:		Stop time (from RC): <u>17:50</u>		hTRIG5 rate <u>846</u>	hTRIG6 rate <u>561</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>2.85M</u> Charge <u>103.7C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.33</u> (μA)		

Run Number: <u>4374</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.27e6</u>	hTRIG3 rate <u>1511</u>	hTRIG4 rate <u>1043</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:		Stop time (from RC): <u>18:53</u>		hTRIG5 rate <u>830</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"/>			Events <u>3.5M</u> Charge <u>130.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.30</u> (μA)		

Run Number: <u>4375</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.75e6</u>	hTRIG3 rate <u>1517</u>	hTRIG4 rate <u>1018</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:		Stop time (from RC): <u>19:55</u>		hTRIG5 rate <u>806</u>	hTRIG6 rate <u>569</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>3.1M</u> Charge <u>115.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.21</u> (μA)		

Run Number: <u>4376</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.27e6</u>	hTRIG3 rate <u>1483</u>	hTRIG4 rate <u>1026</u>
I <sub>beam</sub> : <u>40</u> μA	Comments:		Stop time (from RC): <u>20:56</u>		hTRIG5 rate <u>817</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"/>			Events <u>3.37M</u> Charge <u>125.7C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>5.27</u> (μA)		

# p(e,e'γ) p Run Sheet

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

Date: 24 / 02 / 12  
yy mm dd

Initials: RMW

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 604a

**Purpose:**

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

HMS, field, current OK?  
yes  no

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

Raster:  On  Off  
Size: 2x7 mm

Beam position and angle on target:

**HMS**  
p: +/- 5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.375  
Nearest 0.005

**NPS**  
θ = SHMS 14.675  
-16.30° Nearest 0.005

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

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

Run Number: <u>4377</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:57</u> Stop time (from RC): <u>21:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.87e6</u> hTRIG5 rate: <u>533</u>	hTRIG3 rate: <u>1171</u> hTRIG6 rate: <u>377</u>	hTRIG4 rate: <u>810</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>30</u> μA	Comments:		Events <u>835K</u> Charge <u>30.7C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>4.22</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4378</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:19</u> Stop time (from RC): <u>21:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.26e6</u> hTRIG5 rate: <u>253</u>	hTRIG3 rate: <u>757</u> hTRIG6 rate: <u>190</u>	hTRIG4 rate: <u>533</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> μA	Comments:		Events <u>997K</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>3.04</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4379</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:52</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>6.78e5</u> hTRIG5 rate: <u>102</u>	hTRIG3 rate: <u>433</u> hTRIG6 rate: <u>83</u>	hTRIG4 rate: <u>305</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> μA	Comments:		Events <u>690K</u> Charge <u>22.8C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>2.3</u> (μA)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4380</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>22:34</u> Stop time (from RC): <u>22:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.27e6</u> hTRIG5 rate: <u>831</u>	hTRIG3 rate: <u>1538</u> hTRIG6 rate: <u>595</u>	hTRIG4 rate: <u>1048</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> μA	Comments:		Events <u>433K</u> Charge <u>32.2C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>5.6</u> (μA)		
coin_sparse <input type="checkbox"/> in <input checked="" type="checkbox"/> n_sparse_low <input type="checkbox"/>							

# p(e,e'γ) p Run Sheet

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

Date: 24.02.12  
yy mm dd

Initials: RMU

Use a separate sheet for each configuration.

**Kinematics:** KinC\_x 604a

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.550 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

**HMS**  
p: +/- -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.375  
Nearest 0.005

**NPS**  
θ = SHMS 14.075  
-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 = 6 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4381</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:58</u> Stop time (from RC): <u>23:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.05e6</u> hTRIG5 rate: <u>625</u>	hTRIG3 rate: <u>1239</u> hTRIG6 rate: <u>391</u>	hTRIG4 rate: <u>748</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>30 μA</u>	Comments:		Events <u>714K</u> Charge <u>27.6C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>7.55 μA</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4382</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:20</u> Stop time (from RC): <u>23:39</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.47e6</u> hTRIG5 rate: <u>278</u>	hTRIG3 rate: <u>851</u> hTRIG6 rate: <u>183</u>	hTRIG4 rate: <u>483</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20 μA</u>	Comments:		Events <u>508K</u> Charge <u>19.5C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>5.16 μA</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4383</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:49</u> Stop time (from RC): <u>00:52</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.57e6</u> hTRIG5 rate: <u>1382</u>	hTRIG3 rate: <u>2055</u> hTRIG6 rate: <u>841</u>	hTRIG4 rate: <u>1319</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20 μA</u>	Comments:		Events <u>4.3M</u> Charge <u>4.9C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>4.98 μA</u>		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4384</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:53</u> Stop time (from RC): <u>01:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.59e6</u> hTRIG5 rate: <u>1333</u>	hTRIG3 rate: <u>2024</u> hTRIG6 rate: <u>876</u>	hTRIG4 rate: <u>1315</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20 μA</u>	Comments:		Events <u>4.2M</u> Charge <u>6.25C</u>	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0</u>	Max NPS anode current (single crystal): <u>4.68 μA</u>		
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>							



# p(e,e'γ) p Run Sheet

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

Date: 24 / 02 / 13  
 yy mm dd

Initials: JP

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

**Purpose:**

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

HMS, field, current OK?  
 yes  no

E<sub>beam</sub>: 11.538 GeV

Raster:  On  Off  
 Size: 2x2

Beam position and angle on target:

**HMS**  
 p: +/- -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 30.375  
Nearest 0.005

**NPS**  
 θ = SHMS 14.075  
-16.30°  
Nearest 0.005

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>	

**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>4385</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.58e6</u>	hTRIG3 rate <u>2086</u>	hTRIG4 rate <u>1296</u>
I <sub>beam</sub> : <u>20</u> μA	Comments:		Stop time (from RC): <u>02:58</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1387</u>	hTRIG6 rate <u>877</u>	

coin\_sparse  coin  coin\_sparse\_low   
 Events 4.6M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.85 (μA)  
 Charge 6.81C

Run Number: <u>4386</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.58e6</u>	hTRIG3 rate <u>1984</u>	hTRIG4 rate <u>1281</u>
I <sub>beam</sub> : <u>20</u> μA	Comments:		Stop time (from RC): <u>04:04</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1352</u>	hTRIG6 rate <u>875</u>	

coin\_sparse  coin  coin\_sparse\_low   
 Events 4.6M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.49 (μA)  
 Charge 6.85C

Run Number: <u>4387</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.58e6</u>	hTRIG3 rate <u>2095</u>	hTRIG4 rate <u>1314</u>
I <sub>beam</sub> : <u>20</u> μA	Comments:		Stop time (from RC): <u>05:06</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1384</u>	hTRIG6 rate <u>898</u>	

coin\_sparse  coin  coin\_sparse\_low   
 Events 4.4M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) (μA)  
 Charge 6.69C

Run Number: <u>4388</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.58e6</u>	hTRIG3 rate <u>2081</u>	hTRIG4 rate <u>1290</u>
I <sub>beam</sub> : <u>20</u> μA	Comments:		Stop time (from RC): <u>06:05</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>1379</u>	hTRIG6 rate <u>890</u>	

coin\_sparse  coin  coin\_sparse\_low   
 Events 4.1M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.68 (μA)  
 Charge 6.19C

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

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

Date: 29/02/13  
yy mm dd

Initials: J.P.Sca

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60.4a**

**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:**

**HMS**  
 p: +/- -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.375  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.075  
-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

<b>Run Number:</b> <u>4389</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	<b>Start time (from RC):</b> <u>06:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>257e6</u>	<b>hTRIG3 rate</b> <u>1998</u>	<b>hTRIG4 rate</b> <u>1287</u>
<b>I<sub>beam</sub>:</b> <u>20</u> $\alpha$ A	<b>Stop time (from RC):</b> <u>07:08</u>			<b>hTRIG5 rate</b> <u>1351</u>	<b>hTRIG6 rate</b> <u>844</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin\_sparse  coin  coin\_sparse\_low   
**Comments:**  
 Events 4.2M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal)          ( $\mu$ A)  
 Charge 64.42C

<b>Run Number:</b> <u>4390</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	<b>Start time (from RC):</b> <u>07:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>2.57e6</u>	<b>hTRIG3 rate</b> <u>2047</u>	<b>hTRIG4 rate</b> <u>1275</u>
<b>I<sub>beam</sub>:</b> <u>20</u> $\alpha$ A	<b>Stop time (from RC):</b> <u>08:08</u>			<b>hTRIG5 rate</b> <u>1357</u>	<b>hTRIG6 rate</b> <u>862</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin\_sparse  coin  coin\_sparse\_low   
**Comments:**  
 Events 4.1M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.65 ( $\mu$ A)  
 Charge 60.42C

<b>Run Number:</b> <u>4391</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	<b>Start time (from RC):</b> <u>08:10:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>2.35e6</u>	<b>hTRIG3 rate</b> <u>1704</u>	<b>hTRIG4 rate</b> <u>996</u>
<b>I<sub>beam</sub>:</b> <u>15</u> $\alpha$ A	<b>Stop time (from RC):</b> <u>8:34:39</u>			<b>hTRIG5 rate</b> <u>907</u>	<b>hTRIG6 rate</b> <u>579</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin\_sparse  coin  coin\_sparse\_low   
**Comments:**  
 Events 1.09M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 3.61 ( $\mu$ A)  
 Charge 15.94C

<b>Run Number:</b> <u>4392</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	<b>Start time (from RC):</b> <u>8:35:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>hTRIG1 rate</b> <u>2.1e6</u>	<b>hTRIG3 rate</b> <u>1290</u>	<b>hTRIG4 rate</b> <u>815</u>
<b>I<sub>beam</sub>:</b> <u>12</u> $\alpha$ A	<b>Stop time (from RC):</b> <u>9:05:33</u>			<b>hTRIG5 rate</b> <u>640</u>	<b>hTRIG6 rate</b> <u>426</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	

coin\_sparse  in  coin\_sparse\_low   
**Comments:**  
 Events 1.14M Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 3.08 ( $\mu$ A)  
 Charge 16.04C

# p(e,e') p Run Sheet

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

Date: 24/2/13  
yy mm dd

Initials: SCD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60\_4a**

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

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

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

HMS, field, current OK?  
yes  no

Beam position and angle on target:

**HMS**  
p: +6-5.038 From GUI  $\theta$ (TV): 19.35 Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.375 Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.07  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.700</u>	mm	<u>0.298</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.697</u>	mm	<u>0.295</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>4393</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:06:36</u> Stop time (from RC): <u>9:45:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.59e6</u> hTRIG5 rate <u>829</u>	hTRIG3 rate <u>835</u> hTRIG6 rate <u>213</u>	hTRIG4 rate <u>570</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>8.455</u> $\alpha$ A	Comments: <u>4a</u>		Events <u>1.2M</u> Charge <u>18 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>2.60</u> ( $\mu$ A)		
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

Run Number: <u>4394</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:47:57</u> Stop time (from RC): <u>10:01:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.58e6</u> hTRIG5 rate <u>1385</u>	hTRIG3 rate <u>2016</u> hTRIG6 rate <u>897</u>	hTRIG4 rate <u>1315</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\alpha$ A	Comments: <u>4a ~120MB/s</u>		Events <u>230k</u> Charge <u>10 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>4.53</u> ( $\mu$ A)		
coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>							

MCC PAX CHANGE ~4H

Run Number: <u>4396</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:58:01</u> Stop time (from RC): <u>13:33:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>40</u> hTRIG5 rate <u>40</u>	hTRIG3 rate <u>40</u> hTRIG6 rate <u>40</u>	hTRIG4 rate <u>40</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>LED</u> $\alpha$ A	Comments: <u>LED run calib old run 4395 is junk</u>		Events <u>478k</u> Charge <u>C</u>	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"/>							

Run Number: <u>4397</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>16:02</u> Stop time (from RC): <u>17:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.28e6</u> hTRIG5 rate <u>449</u>	hTRIG3 rate <u>1507</u> hTRIG6 rate <u>345</u>	hTRIG4 rate <u>1064</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> $\alpha$ A	Comments: <u>KinC-x60-4b</u>		Events <u>3.4M</u> Charge <u>128 nC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.34</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

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

Date: 24/2/13  
yy mm dd

Initials: MY

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-46**

$E_{\text{beam}}$ : 10.538 GeV

Raster:  On  Off  
Size: 2x2

**Purpose:**

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

HMS, field, current OK?  
yes  no

Beam position and angle on target:

3H07A	X	Y
<u>1.70</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u>	mm	<u>0.30</u> mm
Nomin:		Nomin:

**HMS**  
 $p$ : +/- -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 33.805  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 17.505  
-16.30° Nearest 0.005

**Collimator:** HMS: Large  Sieve   
NPS Sweep Magnet  $I =$  408 Amp  
NPS Upstream Corr.  $I =$  0 Amp  
NPS Upstream Corr.  $I =$  0 Amp

Run Number: <u>4398</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>17:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.28 · 10<sup>6</sup></u>	hTRIG3 rate <u>1544</u>	hTRIG4 rate <u>1037</u>
$I_{\text{beam}}$ : <u>40</u> $\alpha$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>452</u>	hTRIG6 rate <u>337</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>3.2m</u> Charge <u>114 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.38</u> ( $\mu$ A)		

Run Number: <u>4399</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>18:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.29 · 10<sup>6</sup></u>	hTRIG3 rate <u>1464</u>	hTRIG4 rate <u>1003</u>
$I_{\text{beam}}$ : <u>40</u> $\alpha$ A	Comments:			<input type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>461</u>	hTRIG6 rate <u>350</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>3.4m</u> Charge <u>129 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.41</u> ( $\mu$ A)		

Run Number: <u>4400</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>19:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.30 · 10<sup>6</sup></u>	hTRIG3 rate <u>1467</u>	hTRIG4 rate <u>1065</u>
$I_{\text{beam}}$ : <u>40</u> $\alpha$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>457.6</u>	hTRIG6 rate <u>334</u>	
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>3.5m</u> Charge <u>134 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.35</u> ( $\mu$ A)		

Run Number: <u>4401</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>9.12 · 10<sup>5</sup></u>	hTRIG3 rate <u>1135</u>	hTRIG4 rate <u>771</u>
$I_{\text{beam}}$ : <u>30</u> $\alpha$ A	Comments:			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>287</u>	hTRIG6 rate <u>202</u>	
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Events <u>776K</u> Charge <u>27 C</u>			Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>1.94</u> ( $\mu$ A)		

# p(e,e'γ) p Run Sheet

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

Date: 24/2/13  
yy mm dd

Initials: mb

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-46**

**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>1.69</u> mm	<u>0.29</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>0.69</u> mm	<u>0.31</u> mm	
Nomin:	Nomin:	

**HMS**  
p: +/- ~5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 33.805  
Nearest 0.005

**NPS**  
θ = SHMS 17.505  
-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>4402</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:37</u> Stop time (from RC): <u>21:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>5.63 · 10<sup>5</sup></u> hTRIG5 rate: <u>136</u>	hTRIG3 rate: <u>790</u> hTRIG6 rate: <u>114</u>	hTRIG4 rate: <u>484</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>809</u> K Charge <u>28</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>2.01</u> (μA)
-------------------------	--	--	---	---	--	--	---	--	-----------	---	--	--

Run Number: <u>4403</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:09</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>2.34 · 10<sup>5</sup></u> hTRIG5 rate: <u>70</u>	hTRIG3 rate: <u>414</u> hTRIG6 rate: <u>64</u>	hTRIG4 rate: <u>294</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>658</u> K Charge <u>21</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>2.16</u> (μA)
-------------------------	--	--	---	---	---	---	---	--	-----------	---	--	--

Run Number: <u>4404</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 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>21:52</u> Stop time (from RC): <u>22:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.28 · 10<sup>6</sup></u> hTRIG5 rate: <u>486</u>	hTRIG3 rate: <u>1564</u> hTRIG6 rate: <u>358</u>	hTRIG4 rate: <u>1049</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input type="checkbox"/> coin <input checked="" type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>466</u> K Charge <u>35</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>3.37</u> (μA)
-------------------------	--	---	---	--	--	---	---	--	-----------	---	--	--

Run Number: <u>4405</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:23</u> Stop time (from RC): <u>22:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>1.07 · 10<sup>6</sup></u> hTRIG5 rate: <u>322</u>	hTRIG3 rate: <u>1251</u> hTRIG6 rate: <u>199</u>	hTRIG4 rate: <u>709</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:	Events <u>693</u> K Charge <u>27</u> C	Active trigger LiveTime fraction (NPS Scaler Gui): <u>0%</u>	Max NPS anode current (single crystal): <u>1.98</u> (μA)
-------------------------	--	---	---	---	--	---	--	--	-----------	---	--	--

# p(e,e'γ) p Run Sheet

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

Date: 24/2/13  
yy mm dd

Initials: MK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-40**

E<sub>beam</sub>: 10.538 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>0.28</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.70</u> mm		<u>0.31</u> mm
Nomin:		Nomin:

**HMS**  
p: +/- 5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 33.805  
Nearest 0.005

**NPS**  
θ = SHMS 17.505  
-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>4406</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:48</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>6.32 · 10<sup>5</sup></u>	hTRIG3 rate <u>841</u>	hTRIG4 rate <u>489</u>
I <sub>beam</sub> : <u>20</u> αA			Stop time (from RC): <u>23:13</u>		hTRIG5 rate <u>151</u>	hTRIG6 rate <u>101</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> coin <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments:			Events <u>6.94k</u> Charge <u>26</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.16</u> (μA)	

Run Number: <u>4407</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:24</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.9 · 10<sup>6</sup></u>	hTRIG3 rate <u>2038</u>	hTRIG4 rate <u>1329</u>
I <sub>beam</sub> : <u>20</u> αA			Stop time (from RC): <u>00:31</u>		hTRIG5 rate <u>887</u>	hTRIG6 rate <u>577</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>4.5M</u> Charge <u>66</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>2.85</u> (μA)	

Run Number: <u>4408</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:33</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.91M</u>	hTRIG3 rate <u>2044</u>	hTRIG4 rate <u>1338</u>
I <sub>beam</sub> : <u>20</u> αA			Stop time (from RC): <u>01:39</u>		hTRIG5 rate <u>909</u>	hTRIG6 rate <u>604</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>4.7</u> Charge <u>70.5</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.16</u> (μA)	

Run Number: <u>4409</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:40</u>	Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK? <input checked="" type="checkbox"/>	hTRIG1 rate <u>1.80M</u>	hTRIG3 rate <u>1927</u>	hTRIG4 rate <u>1273</u>
I <sub>beam</sub> : <u>20</u> αA			Stop time (from RC): <u>02:21</u>		hTRIG5 rate <u>866</u>	hTRIG6 rate <u>572</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> coin_sparse_low <input type="checkbox"/>	Comments: <u>BEAM DOWN FOR LONG TIME</u>			Events <u>2.3M</u> Charge <u>34.5</u> C	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0%</u>	Max NPS anode current (single crystal) <u>3.09</u> (μA)	

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

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

Date: 24/07/19  
yy mm dd

Initials: CA/SCA

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4b**

**Purpose:**

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

HMS, field, current OK?

yes  no

E<sub>beam</sub>: 10.337 GeV

Raster:  On  Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>1.768</u> mm		<u>2.89</u> mm
Nomin: <u>1.7</u>		Nomin: <u>3</u>
3H07C	X	Y
<u>0.697</u> mm		<u>0.300</u> mm
Nomin: <u>1.7</u>		Nomin: <u>3</u>

HMS  
p: +/- -3.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 33.805  
Nearest 0.005

NPS  
 $\theta$  = SHMS 17.505  
-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: 4410  
I<sub>beam</sub>: 20  $\mu$ A

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

PS1: -1  
PS2: -4  
PS3: -1  
PS4: 0  
PS5: -1  
PS6: -1

Start time (from RC): 04:00  
Stop time (from RC): 05:04

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

hTRIG1 rate: 194  
hTRIG5 rate: 864

hTRIG3 rate: 2016  
hTRIG6 rate: 582

hTRIG4 rate: 1295  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: Previous

Events 4.7M  
Charge 70.03

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.05 ( $\mu$ A)

Run Number: 4411  
I<sub>beam</sub>: 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: 0  
PS5: -1  
PS6: -1

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

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

hTRIG1 rate: 1.82M  
hTRIG5 rate: 850

hTRIG3 rate: 2022  
hTRIG6 rate: 550

hTRIG4 rate: 1262  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: BEAM OFF, MAINTENANCE DAY

Events 3.8M  
Charge C

Active trigger LiveTime fraction (NPS Scaler Gui) 0%

Max NPS anode current (single crystal) 3.06 ( $\mu$ A)

Run Number: 4412  
I<sub>beam</sub>: 20  $\mu$ A

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

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

Start time (from RC): 8:41:21  
Stop time (from RC): 9:15:46

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

hTRIG1 rate: 40  
hTRIG5 rate: 40

hTRIG3 rate: 42  
hTRIG6 rate: 39.7

hTRIG4 rate: 40  
 Data ok  
 Junk

coin\_sparse   
coin   
coin\_sparse\_low

Comments: coin vld LED run

Events 400K  
Charge 1.758 mC

Active trigger LiveTime fraction (NPS Scaler Gui)

Max NPS anode current (single crystal)

4413 JUNK, CODA Problem

Run Number: 4414  
I<sub>beam</sub>: 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: 0  
PS5: -1  
PS6: -1

Start time (from RC): 21:07  
Stop time (from RC): 22:09

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

hTRIG1 rate: 1.95 MHz  
hTRIG5 rate: 928

hTRIG3 rate: 2032  
hTRIG6 rate: 597

hTRIG4 rate: 1305  
 Data ok  
 Junk

coin\_sparse   
in   
coin\_sparse\_low

Comments: Data Rate 75 MB/s

Events 4.5M  
Charge 67.8 mC

Active trigger LiveTime fraction (NPS Scaler Gui) "0" for ps4

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

# p(e,e'γ) p Run Sheet

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

Date: 24/02/14  
 yy mm dd

Initials: ERK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60\_4b**

**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: +5.0380 θ(TV): 19.345  
From GUI Nearest 0.005

**SHMS**  
 θ(TV): 33.805  
Nearest 0.005

**NPS**  
 θ = SHMS 17.505  
 -16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.695</u> mm		<u>0.297</u> mm
Nomin: <u>1.7</u>		Nomin: <u>0.3</u>
3H07C	X	Y
<u>1.709</u> mm		<u>1.300</u> mm
Nomin: <u>0.7</u>		Nomin: <u>0.3</u>

**Collimator:** HMS: Large Sieve  NPS Sweep Magnet I = 468 Amp NPS Upstream Corr. I = 405 Amp NPS Upstream Corr. I = 0 Amp

Run Number: <u>4415</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:17</u>	<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>2030</u>	hTRIG4 rate <u>1322</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>23:19</u>		hTRIG5 rate <u>928</u>	hTRIG6 rate <u>552</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: Date Rate 75 MB/s  
 Events 4.5M Charge 47.1 mC Active trigger fraction (NPS Scaler Gui) "0" LiveTime fraction (NPS Scaler Gui) PS4=0 Max NPS anode current (single crystal) 2.7 (μA)

4416 Junk

Run Number: <u>4416</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:53</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>2076</u>	hTRIG4 rate <u>1333</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>00:56</u>		hTRIG5 rate <u>795</u>	hTRIG6 rate <u>516</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: Date Rate 45 MB/s  
 Events 4.5M Charge 47.1 mC Active trigger fraction (NPS Scaler Gui) "0" LiveTime fraction (NPS Scaler Gui) PS4=0 Max NPS anode current (single crystal) 2.7 (μA)

Run Number: <u>4418</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.37M</u>	hTRIG3 rate <u>1485</u>	hTRIG4 rate <u>955</u>
I <sub>beam</sub> : <u>15</u> μA			Stop time (from RC): <u>01:25</u>		hTRIG5 rate <u>483</u>	hTRIG6 rate <u>324</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: Date Rate 38 MB/s  
 Events 1.2M Charge 18 mC Active trigger fraction (NPS Scaler Gui) 0 LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 0 (μA)

Run Number: <u>4419</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.07M</u>	hTRIG3 rate <u>1243</u>	hTRIG4 rate <u>795</u>
I <sub>beam</sub> : <u>12</u> μA			Stop time (from RC): <u>01:32</u>		hTRIG5 rate <u>316</u>	hTRIG6 rate <u>213</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk

coin\_sparse  in  n\_sparse\_low   
 Comments: Date Rate 26 MB/s  
 Events 1.4M Charge 21 mC Active trigger fraction (NPS Scaler Gui) 0 LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 1.69 (μA)



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

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

Date: 24/02/15  
yy mm dd

Initials: HJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4b**

**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
1.690 mm		0.326 mm
Nomin: 1.7		Nomin: 0.3
3H07C	X	Y
0.701 mm		0.303 mm
Nomin: 0.7		Nomin: 0.3

HMS

SHMS

NPS

p: +/- -5.0380  $\theta$ (TV): 19.350  
From GUI Nearest 0.005

$\theta$ (TV): 30.395  
Nearest 0.005

$\theta$  = SHMS 14.095  
-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>4420</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>6.78.105</u>	hTRIG3 rate <u>838</u>	hTRIG4 rate <u>543</u>
I <sub>beam</sub> : <u>8</u> $\mu$ A	Stop time (from RC): <u>02:51</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>164</u>	hTRIG6 rate <u>125</u>	

coin\_sparse  coin  coin\_sparse\_low

Comments: Data Rate 13 MB/s.

Events 1.3M Charge 18.9 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 1.37 ( $\mu$ A)

Run Number: <u>4422</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>2</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:00</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>2092</u>	hTRIG4 rate <u>1320</u>
I <sub>beam</sub> : <u>20</u> $\mu$ A	Stop time (from RC): <u>03:17</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>816</u>	hTRIG6 rate <u>526</u>	

coin\_sparse  coin  coin\_sparse\_low

Comments: Data Rate = 115 kB/s

Events 443k Charge 19.6 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 2.85 ( $\mu$ A)

// KinC\_x60-4a

Run Number: <u>4424</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.2M</u>	hTRIG3 rate <u>1497</u>	hTRIG4 rate <u>1034</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Stop time (from RC): <u>06:45</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>777</u>	hTRIG6 rate <u>543</u>	

coin\_sparse  coin  coin\_sparse\_low

Comments: Data Rate 55 MB/s

Events 3.4M Charge 125 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 5.13 ( $\mu$ A)

Run Number: <u>4425</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.1M</u>	hTRIG3 rate <u>1487</u>	hTRIG4 rate <u>1033</u>
I <sub>beam</sub> : <u>40</u> $\mu$ A	Stop time (from RC): <u>07:49</u>			<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	hTRIG5 rate <u>780</u>	hTRIG6 rate <u>512</u>	

coin\_sparse  in  n\_sparse\_low

Comments: Data Rate 55 MB/s

Events 3.3M Charge 120 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.85 ( $\mu$ A)

# p(e,e'γ) p Run Sheet

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

Date: 24/02/15  
yy mm dd

Initials: HS

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

**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
1.705 mm		0.294 mm
Nomin: 1.7		Nomin: 0.3
3H07C	X	Y
0.699 mm		0.299 mm
Nomin: 0.7		Nomin: 0.3

**HMS**  
p: +/- 5.0380 θ(TV): 19.350  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.375  
Nearest 0.005

**NPS**  
θ = SHMS 14.075  
-16.30° Nearest 0.005

DOWN!

**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>4426</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:52</u>	Stop time (from RC): <u>8:04:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.15.106</u>	hTRIG3 rate <u>1517</u>	hTRIG4 rate <u>1023</u>	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> μA	Comments: <u>VME DOWN Data Rate 55MB/s</u>			Events _____ Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>5.06</u> (μA)			

Run Number: <u>4428</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>8:16:56</u>	Stop time (from RC): <u>8:29:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.15.26</u>	hTRIG3 rate <u>1540</u>	hTRIG4 rate <u>1019</u>	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> μA	Comments: <u>4427 is junk (code mixed and VME)</u>			Events <u>423k</u> Charge <u>25 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>4.94</u> (μA)			

Run Number: <u>4430</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>9:56:09</u>	Stop time (from RC): <u>10:37:06</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 type="checkbox"/> Junk
I <sub>beam</sub> : <u>—</u> μA	Comments: <u>LED run, COIN-VLD. TUNE Beam in the Hall</u>			Events <u>42k</u> Charge <u>C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA)			

Run Number: <u>4437</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:07:31</u>	Stop time (from RC): <u>15:17:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.19.26</u>	hTRIG3 rate <u>1502</u>	hTRIG4 rate <u>1037</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> μA	Comments: <u>314 tiny beam ~55 MB/s</u>			Events <u>2.54M</u> Charge <u>29 μC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>5.02</u> (μA)			

# p(e,e'γ) p Run Sheet

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

Date: 24/02/15  
yy mm dd

Initials: SGD

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

Purpose:

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

HMS, field, current OK?

yes  no

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

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

Beam position and angle on target:

3H07A	X	Y
<u>1.695</u> mm		<u>0.307</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.687</u> mm		<u>0.316</u> mm
Nomin:		Nomin:

HMS

SHMS

NPS

p: +0.5038 θ(TV): 19.35  
From GUI Nearest 0.005

θ(TV): 30.37  
Nearest 0.005

θ = SHMS 14.07  
-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>4438</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:19:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>2.18e6</u>	hTRIG3 rate <u>1581</u>	hTRIG4 rate <u>1035</u>
I <sub>beam</sub> : <u>40</u> μA			Stop time (from RC): <u>16:20:52</u>		hTRIG5 rate <u>802</u>	hTRIG6 rate <u>548</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>414</u>	Events <u>3018350</u> Charge <u>101.39 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>3.89</u> (μA)
--	----------------------	--	--	---

Run Number: <u>4439</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>16:33:24</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>1171</u>	hTRIG4 rate <u>895</u>
I <sub>beam</sub> : <u>30</u> μA			Stop time (from RC): <u>16:54:25</u>		hTRIG5 rate <u>483</u>	hTRIG6 rate <u>330</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>2606</u> Charge <u>26.06 C</u>	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>3.9</u> (μA)
--	-----------	---	---	--

Run Number: <u>4440</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>17:06:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.78e6</u>	hTRIG3 rate <u>1179</u>	hTRIG4 rate <u>814</u>
I <sub>beam</sub> : <u>30</u> μA			Stop time (from RC): <u>17:14:52</u>		hTRIG5 rate <u>473</u>	hTRIG6 rate <u>339</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>Scaler test</u>	Events <u>371242</u> Charge <u>13 mC</u>	Active trigger LiveTime fraction (NPS Scaler Gui) <u>3</u>	Max NPS anode current (single crystal) <u>3.69</u> (μA)
--	------------------------------	---	--	---

Run Number: <u>4441</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>17:16:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate <u>1.18e6</u>	hTRIG3 rate <u>812</u>	hTRIG4 rate <u>548</u>
I <sub>beam</sub> : <u>20</u> μA			Stop time (from RC): <u>17:30:09</u>		hTRIG5 rate <u>234</u>	hTRIG6 rate <u>177</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>Scaler test</u>	Events <u>41281</u> Charge <u>14.2 mC</u>	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: 24/02/15  
yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-4a**

**Purpose:**

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

HMS, field, current OK?  
yes  no

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

Raster:  On  Off  
Size: 2x2mm

Beam position and angle on target:

**HMS**  
p: +0 -5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.37  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.07  
-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>4442</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>17:32:26</u> Stop time (from RC): <u>17:51:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>119e6</u> hTRIG5 rate: <u>237</u>	hTRIG3 rate: <u>761</u> hTRIG6 rate: <u>177</u>	hTRIG4 rate: <u>531</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments:			Events <u>492269</u> Charge <u>1.72</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>2.7</u> ( $\mu$ A)	

Run Number: <u>4443</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>18:01:07</u> Stop time (from RC): <u>18:08:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>5.93e5</u> hTRIG5 rate: <u>100</u>	hTRIG3 rate: <u>396</u> hTRIG6 rate: <u>83</u>	hTRIG4 rate: <u>285</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:			Events <u>16229</u> Charge <u>3.62</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.10</u> ( $\mu$ A)	

Run Number: <u>4444</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>18:29:29</u> Stop time (from RC): <u>19:09:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>5.16e5</u> hTRIG5 rate: <u>93</u>	hTRIG3 rate: <u>416</u> hTRIG6 rate: <u>76</u>	hTRIG4 rate: <u>298</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>10</u> $\mu$ A	Comments:			Events <u>65675</u> Charge <u>2.58</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>1.56</u> ( $\mu$ A)	

Run Number: <u>4445</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> 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>1</u> PS5: <u>-</u> PS6: <u>-</u>	Start time (from RC): <u>19:14:12</u> Stop time (from RC): <u>19:32:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.2e6</u> hTRIG5 rate: <u>807</u>	hTRIG3 rate: <u>1510</u> hTRIG6 rate: <u>576</u>	hTRIG4 rate: <u>1043</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>40</u> $\mu$ A	Comments:			Events <u>45409</u> Charge <u>33.5</u> C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) <u>4.94</u> ( $\mu$ A)	

# p(e,e') p Run Sheet

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

Date: 24/02/15  
yy mm dd

Initials: YZ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x 60-4A**

**Purpose:**

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

HMS, field, current OK?  
yes  no

E<sub>beam</sub>: 10.58 GeV

Raster:  On  Off  
Size: 2x2 mm

Beam position and angle on target:

**HMS**  
p: +10 -5.038 θ(TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.37  
Nearest 0.005

**NPS**  
θ = SHMS 14.07  
-16.30° Nearest 0.005

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

**Collimator:** HMS: Large  Sieve  NPS Sweep Magnet I = 467.93 Amp NPS Upstream Corr. I = 0 Amp NPS Upstream Corr. I = 0 Amp

<b>Run Number:</b> 4447	<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: 0 PS5: - PS6: -	Start time (from RC): 19:41:08 Stop time (from RC): 20:02:46	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 266 hTRIG5 rate 588	hTRIG3 rate 1233 hTRIG6 rate 362	hTRIG4 rate 720 <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 75489 Charge 29.63 C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA) 7.68
----------------------------	--	--	---	---	--	---	--	--	-----------	--------------------------------	---	---

<b>Run Number:</b> 4448	<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: 0 PS5: - PS6: -	Start time (from RC): 20:04:04 Stop time (from RC): 20:28:11	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 1.35e6 hTRIG5 rate 270	hTRIG3 rate 861 hTRIG6 rate 175	hTRIG4 rate 514 <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 685776 Charge 26.78 C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA) 4.75
----------------------------	--	--	---	---	---	--	--	--	-----------	---------------------------------	---	---

<b>Run Number:</b> 4449	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): 20:42:27 Stop time (from RC): 21:53:32	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 2.55e6 hTRIG5 rate 1338	hTRIG3 rate 2047 hTRIG6 rate 845	hTRIG4 rate 1306 <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: 1st hour	Events 4814811 Charge 68.75 C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA) 4.5
----------------------------	--	--	---	---	--	---	---	--	-----------------------	----------------------------------	---	--

<b>Run Number:</b> 4450	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: - PS2: - PS3: - PS4: 0 PS5: - PS6: -	Start time (from RC): 21:55:18 Stop time (from RC): 22:56:21	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate 2.53e6 hTRIG5 rate 1278	hTRIG3 rate 2016 hTRIG6 rate 816	hTRIG4 rate 1279 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk	coin_sparse <input checked="" type="checkbox"/> in <input type="checkbox"/> n_sparse_low <input type="checkbox"/>	Comments: 2nd hour	Events 4479948 Charge 66.42 C	Active trigger LiveTime fraction (NPS Scaler Gui)	Max NPS anode current (single crystal) (μA) 4.33
----------------------------	--	--	---	---	--	---	---	---	-----------------------	----------------------------------	---	---

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

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

Date: 24/02/15 Initials: YZ  
yy mm dd

Use a separate sheet for each configuration.

**Kinematics: KinC\_x** 60-4a

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

HMS, field, current OK?  
 yes  no

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

Raster:  On  Off  
 Size: 2x2 mm

Beam position and angle on target:

**HMS**  
 p: +0-5.038  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.37  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.07  
 -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 = 46.93 Amp  
 NPS Upstream Corr. I = 0 Amp  
 NPS Upstream Corr. I = 0 Amp

Run Number: <u>4451</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> 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>22:58:06</u> Stop time (from RC): <u>23:11:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.52e6</u> hTRIG5 rate: <u>1282</u>	hTRIG3 rate: <u>2037</u> hTRIG6 rate: <u>823</u>	hTRIG4 rate: <u>1323</u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>3rd 5min/1hour</u>		Events _____ Charge _____ C	Active trigger LiveTime fraction (NPS Scaler Gui) _____	Max NPS anode current (single crystal) <u>4.45</u> ( $\mu$ A)		

Run Number: <u>4453</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:56</u> Stop time (from RC): <u>02:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.52.006</u> hTRIG5 rate: <u>1292</u>	hTRIG3 rate: <u>2021</u> hTRIG6 rate: <u>833</u>	hTRIG4 rate: <u>1262</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>3rd 1-hour-run</u>		Events <u>4.3M</u> Charge <u>64.76</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>4.19</u> ( $\mu$ A)		

Run Number: <u>4454</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:06</u> Stop time (from RC): <u>03:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.52.106</u> hTRIG5 rate: <u>1288</u>	hTRIG3 rate: <u>2048</u> hTRIG6 rate: <u>811</u>	hTRIG4 rate: <u>1279</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>4th 1hour run</u>		Events <u>4.6M</u> Charge <u>69.10</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>4.33</u> ( $\mu$ A)		

Run Number: <u>4455</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:12</u> Stop time (from RC): <u>04:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.52.106</u> hTRIG5 rate: <u>1255</u>	hTRIG3 rate: <u>2048</u> hTRIG6 rate: <u>854</u>	hTRIG4 rate: <u>1297</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>20</u> $\mu$ A	Comments: <u>5th 1hour run</u>		Events <u>4.2M</u> Charge <u>62.84</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui) <u>0</u>	Max NPS anode current (single crystal) <u>4.34</u> ( $\mu$ A)		

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

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

Date: 24/02/16  
yy mm dd

Initials: HJ

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60\_4a**

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

HMS, field, current OK?  
 yes  no

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

Raster:  On  Off  
 Size: 2x2mm

Beam position and angle on target:

**HMS**  
 p: +/-5.0380  $\theta$ (TV): 19.35  
From GUI Nearest 0.005

**SHMS**  
 $\theta$ (TV): 30.37  
Nearest 0.005

**NPS**  
 $\theta$  = SHMS 14.07  
-16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.696</u>	mm	<u>0.309</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.700</u>	mm	<u>0.297</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: 4456  
 I<sub>beam</sub>: 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: 0 PS5: -1 PS6: -1  
 Start time (from RC): 04:18 Stop time (from RC): 05:20  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.50.10<sup>6</sup> hTRIG3 rate: 2016 hTRIG4 rate: 1294  
 hTRIG5 rate: 1255 hTRIG6 rate: 809  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 6th 1 hour run  
 Events 4.5M Charge 67.89 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.13 ( $\mu$ A)

Run Number: 4457  
 I<sub>beam</sub>: 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: 0 PS5: -1 PS6: -1  
 Start time (from RC): 05:22 Stop time (from RC): 06:26  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.51.10<sup>6</sup> hTRIG3 rate: 2081 hTRIG4 rate: 1299  
 hTRIG5 rate: 1309 hTRIG6 rate: 818  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 7th 1 hour run  
 Events 4.6M Charge 69.01 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.57 ( $\mu$ A)

Run Number: 4458  
 I<sub>beam</sub>: 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: 0 PS5: -1 PS6: -1  
 Start time (from RC): 06:28 Stop time (from RC): 07:30  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.52.10<sup>6</sup> hTRIG3 rate: 2021 hTRIG4 rate: 1289  
 hTRIG5 rate: 1294 hTRIG6 rate: 843  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 8th 1 hour run.  
 Events 4.3M Charge 64.74 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 4.39 ( $\mu$ A)

Run Number: 4459  
 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: 0 PS5: -1 PS6: -1  
 Start time (from RC): 07:37 Stop time (from RC): 07:47  
 Settings Verified?  HV OK?  50k OK?  
 hTRIG1 rate: 2.28.10<sup>6</sup> hTRIG3 rate: 1514 hTRIG4 rate: 968  
 hTRIG5 rate: 830 hTRIG6 rate: 540  
 Data ok  Junk

coin\_sparse  coin  coin\_sparse\_low   
 Comments: 20 min run at 15  $\mu$ A stopped after 10 min in order to go to controlled access.  
 Events 533k Charge 7.93 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 Max NPS anode current (single crystal) 3.51 ( $\mu$ A)

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

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

Date: 24/02/18  
yy mm dd

Initials: CH

Use a separate sheet for each configuration.

Kinematics: KinC\_x  
Elastic

Purpose:  
 Production  
 Test  
 Optics  
 Other: Elastic

HMS, field, current OK?  
 yes  no

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

Raster:  On  Off  
 Size: 2 x 2 mm

Beam position and angle on target:

HMS  
 p: 4.06  $\theta$ (TV): 29.98  
From GUI Nearest 0.005

SHMS  
 $\theta$ (TV): 31.10  
Nearest 0.005

NPS  
 $\theta$  = SHMS 14.80  
-16.30°  
Nearest 0.005

3H07A	X	Y
<u>1.702</u> mm		<u>0.285</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.703</u> mm		<u>0.301</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: 4467  
 I<sub>beam</sub>: 40  $\mu$ 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): 11:53  
 Stop time (from RC): 12:40

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 4.56e5 hTRIG3 rate: 118.6 hTRIG4 rate: 2.7  
 hTRIG5 rate: 24.9 hTRIG6 rate: 5.1

coin\_sparse  coin  coin\_sparse\_low

Comments: Wrong trigger

Events 16 K Charge 8.6 mC Active trigger LiveTime fraction (NPS Scaler Gui) 0 % Max NPS anode current (single crystal) 34.68  $\mu$ A

Run Number: 4469  
 beam: 40  $\mu$ A

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

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

Start time (from RC): 12:56  
 Stop time (from RC): 14:00

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 4.43e5 hTRIG3 rate: 114.8 hTRIG4 rate: 12.2  
 hTRIG5 rate: 26.4 hTRIG6 rate: 6.8

coin\_sparse  coin  coin\_sparse\_low

Comments: Elastic, SHMS  $\theta_{\text{eta}} = 31.1$  deg

Events 65 K Charge 11.5 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 % Max NPS anode current (single crystal) 32.48  $\mu$ A

Run Number: 4470  
 I<sub>beam</sub>: 40  $\mu$ A

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

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

Start time (from RC): 14:09  
 Stop time (from RC): 15:15

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: 3.25e5 hTRIG3 rate: 121.8 hTRIG4 rate: 2.6  
 hTRIG5 rate: 19.3 hTRIG6 rate: 7.6

coin\_sparse  coin  coin\_sparse\_low

Comments: Elastic, SHMS  $\theta_{\text{eta}} = 32.185$  deg

Events 60.5 K Charge 13.3 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 % Max NPS anode current (single crystal) 31.82  $\mu$ A

Run Number: 4471  
 I<sub>beam</sub>: 40  $\mu$ A

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

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

Start time (from RC): 15:23  
 Stop time (from RC): 15:38:53

Settings Verified?  HV OK?  50k OK?

hTRIG1 rate: ? hTRIG3 rate: ? hTRIG4 rate: ?  
 hTRIG5 rate: ? hTRIG6 rate: ?

coin\_sparse  coin  coin\_sparse\_low

Comments: Junk unstable beam

Events 7 K Charge 0.6 mC Active trigger LiveTime fraction (NPS Scaler Gui) 100 % Max NPS anode current (single crystal) 19.59  $\mu$ A



# p(e,e'γ)p Run Sheet

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

Date: 24/02/18  
yy mm dd

Initials: EKK

Use a separate sheet for each configuration.

**Kinematics: KinC\_x60-4a**

E<sub>beam</sub>: 10.538 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: +5.0380 θ(TV): 19.345  
From GUI Nearest 0.005

**SHMS**  
θ(TV): 30.370  
Nearest 0.005

**NPS**  
θ = SHMS 14.078  
-16.30° Nearest 0.005

3H07A	X	Y
<u>1.702</u> mm		<u>1.294</u> mm
Nomin: <u>1.2</u>		Nomin: <u>1.3</u>
3H07C	X	Y
<u>0.699</u> mm		<u>1.304</u> mm
Nomin: <u>1.2</u>		Nomin: <u>1.3</u>

**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>4472</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:00</u> Stop time (from RC): <u>21:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	hTRIG1 rate: <u>2.4 MHz</u> hTRIG5 rate: <u>915</u>	hTRIG3 rate: <u>1536</u> hTRIG6 rate: <u>569</u>	hTRIG4 rate: <u>996</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : <u>15</u> μA	Comments: <u>1 run ended due to long beam</u> <u>data rate 60 MB/s off</u>		Events: <u>333k</u> Charge: <u>4.6</u> mC	Active trigger LiveTime fraction (NPS Scaler Gui): <u>"0" ps4=0</u>	Max NPS anode current (single crystal): <u>3.86</u> (μA)		

Run Number: <u>4473</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:39</u> Stop time (from RC): <u>21:41</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: _____ hTRIG5 rate: _____	hTRIG3 rate: _____ hTRIG6 rate: _____	hTRIG4 rate: _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : _____ μA	Comments: <u>coin vld, LED run / check user</u>		Events: _____ Charge: _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal): _____ (μA)		

Run Number: <u>4474</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:46</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 checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
I <sub>beam</sub> : _____ μA	Comments: <u>RESET FRANK</u> <u>coin vld, disconnected amp</u>		Events: _____ Charge: _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal): _____ (μA)		

Run Number: <u>4475</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> Optics#1 8cm <input type="checkbox"/> C 0.5% r.l.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:53</u> Stop time (from RC): <u>22:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	hTRIG1 rate: _____ hTRIG5 rate: _____	hTRIG3 rate: _____ hTRIG6 rate: _____	hTRIG4 rate: _____ <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
I <sub>beam</sub> : _____ μA	Comments: <u>NPS</u> <u>coin vld, Prod. HV</u>		Events: _____ Charge: _____ C	Active trigger LiveTime fraction (NPS Scaler Gui): _____	Max NPS anode current (single crystal): _____ (μA)		