

$p(e,e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22/09/02
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2=1.6$, $W=3.08$, $x=0.1568$
low E SHMS left

E_{beam} : 6.3 GeV

I_{beam} : 2.5 μA

Purpose:

- ☒ Production
☐ Test (e.g. DAQ, Detector)
☐ Optics (SHMS / HMS)
☐ Other: _____

Raster: ☒ On ☐ Off
Size: 2 x 2

Beam position and angle on target:

3H07A	X	Y
	-0.10 mm	-0.31 mm
Nomin:	-0.09	Nomin: -0.3
3H07C	X	Y
	-0.70 mm	-0.51 mm
Nomin:	-0.68	Nomin: -0.49

HMS

SHMS

Q1	I-SET (from PSU) <u>125.65</u> A B-HALL <u>0.15908</u> T	I-SET (from PSU) <u>1814.80</u> A B-HALL <u>11.451</u> kg	HB
Q2	I-SET (from PSU) <u>99.30</u> A B-HALL <u>-0.16064</u> T	I-SET (from PSU) <u>1138.28</u> A B-HALL <u>-8.003</u> kg	Q1
Q3	I-SET (from PSU) <u>48.15</u> A B-HALL <u>0.09149</u> T	I-SET (from PSU) <u>1912.04</u> A B-HALL <u>17.918</u> kg	Q2
D	I-READ <u>292.83</u> A B-NMR <u>0.26279</u> T	I-SET (from PSU) <u>1258.04</u> A B-HALL <u>12.131</u> kg	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>1729.84</u> A B-NMR <u>-12.599</u> kg	D

Run Number:

16766

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics _____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 6
PS5: 8
PS6: 9
Mode10: cer/fadc

Start time (RC GUI):

8:36

Stop time (RC GUI):

8:53

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

HMS prescale
pretrig: k

e- π n evts:

SHMS prescale
pretrig: k

Σ e- π n evts:

COIN
pretrig: k

☐ Data ok

☒ Junk

Comments:

2.5 μA

NMR setting fadcmodel0 and cermodel0 was both clicked

This is fine 50k 2/9/22
Model0 fadc pretrig

Run Number:

16768

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics _____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 8
PS6: 9
Mode10: cer/fadc

Start time (RC GUI):

8:55

Stop time (RC GUI):

9:02

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

HMS prescale
pretrig: k

e- π n evts:

SHMS prescale
pretrig: k

Σ e- π n evts:

COIN
pretrig: k

☒ Data ok

☐ Junk

Comments:

2.5 μA

fadcmodel0 run

Run Number:

16769

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics _____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 8
PS6: 9
Mode10: cer/fadc

Start time (RC GUI):

9:02

Stop time (RC GUI):

9:05

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

HMS prescale
pretrig: k

e- π n evts:

SHMS prescale
pretrig: k

Σ e- π n evts:

COIN
pretrig: k

☐ Data ok

☒ Junk

Comments:

2.5 μA

cermode10 (stop early due to confusion about over doing AMS 3/4 first, just doing production for now)

Run Number:

16770

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics _____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 8
PS6: 9
Mode10: cer/fadc

Start time (RC GUI):

9:07

Stop time (RC GUI):

9:58

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

HMS prescale
pretrig: 216 k

e- π n evts:

53

SHMS prescale
pretrig: 183 k

Σ e- π n evts:

53

COIN
pretrig: 196 k

☒ Data ok

☐ Junk

Comments:

2.5 μA

Q=6.4 mC

$p(e,e'\pi)n$ Run Sheet

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Date: 22/09/02
yy mm dd

Initials: NL

Continuation of Configuration:

$Q^2 = 1.6$, $W = 3.08$, $X = 0.1568$

Low ϵ SHMS Left

This sheet is only to be used to continue a running configuration.

LD

Run Number: <u>16771</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>10:02</u> Stop time (RC GUI): <u>10:55</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>216</u> k $e-\pi n$ evts: <u>47</u>	SHMS prescale pretrig: <u>185</u> k $\Sigma e-\pi n$ evts: <u>100</u>	COIN pretrig: <u>201</u> k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$Q = 6.5$ mC

Run Number: <u>16772</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: <u>cer</u> / fadc	Start time (RC GUI): Stop time (RC GUI): 	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: 	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: 	COIN pretrig: _____ k ☐ Data ok ☒ Junk
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Comments:

Running dag while beam down

Run Number: <u>16773</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>11:41</u> Stop time (RC GUI): <u>12:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>305</u> k $e-\pi n$ evts: <u>70</u>	SHMS prescale pretrig: <u>266</u> k $\Sigma e-\pi n$ evts: <u>170</u>	COIN pretrig: <u>271</u> k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$Q = 8.4$ mC

Run Number: <u>16774</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>12:43</u> Stop time (RC GUI): <u>13:28</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>94</u> k $e-\pi n$ evts: <u>22</u>	SHMS prescale pretrig: <u>80</u> k $\Sigma e-\pi n$ evts: <u>192</u>	COIN pretrig: <u>99</u> k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

No beam after 13:01 (RF Cup centering)

$Q = 4.0$ mC

Run Number: <u>16775</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>13:33</u> Stop time (RC GUI): <u>14:34</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>312</u> k $e-\pi n$ evts: <u>85</u>	SHMS prescale pretrig: <u>272</u> k $\Sigma e-\pi n$ evts: <u>277</u>	COIN pretrig: <u>275</u> k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

Beam back 13:33 (RF centering done)

$Q = 8.5$ mC

Run Number: <u>16776</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>14:35</u> Stop time (RC GUI): <u>15:38</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>299</u> k $e-\pi n$ evts: <u>69</u>	SHMS prescale pretrig: <u>261</u> k $\Sigma e-\pi n$ evts: <u>346</u>	COIN pretrig: <u>266</u> k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$\Sigma Q = 42.3$ mC

$Q = 8.5$ mC

$p(e, e'\pi)n$ Run Sheet

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Date: 22 / 09 / 02
yy mm dd

Initials: NL

Continuation of Configuration:

$Q^2 = 1.6$, $W = 3.08$, $x = 0.1568$

Low ϵ SHMS Left

LD

This sheet is only to be used to continue a running configuration.

Run Number: 16777	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:39 Stop time (RC GUI): 16:39	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 285 k $e-\pi n$ evts: 68	SHMS prescale pretrig: 250 k $\Sigma e-\pi n$ evts: 414	COIN pretrig: 254 k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$Q = 8.0 \text{ mC}$
 $\Sigma Q = 50.3 \text{ mC}$

Run Number: 16778	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:40 Stop time (RC GUI): 17:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 101 k $e-\pi n$ evts: 15	SHMS prescale pretrig: 88 k $\Sigma e-\pi n$ evts: 429	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments:

No beam for ~ 10 minutes $Q = 3.4 \text{ mC}$
 $\Sigma Q = 53.8 \text{ mC}$

Run Number: 16779	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:13 Stop time (RC GUI): 23:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 317 k $e-\pi n$ evts: 77	SHMS prescale pretrig: 280 k $\Sigma e-\pi n$ evts: 506	COIN pretrig: 375 k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$Q = 8.6 \text{ mC}$
 $\Sigma Q = 62.4 \text{ mC}$

Run Number: 16780	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:15 Stop time (RC GUI): 00:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 304 k $e-\pi n$ evts: 70	SHMS prescale pretrig: 271 k $\Sigma e-\pi n$ evts: 576	COIN pretrig: 265 k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$Q = 8.4 \text{ mC}$
 $\Sigma Q = 70.8 \text{ mC}$

Run Number: 16781	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:16 Stop time (RC GUI): 01:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 310 k $e-\pi n$ evts: 79	SHMS prescale pretrig: 277 k $\Sigma e-\pi n$ evts: 655	COIN pretrig: 270 k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$Q = 8.4 \text{ mC}$
 $\Sigma Q = 79.2 \text{ mC}$

Run Number: 16782	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:18 Stop time (RC GUI): 02:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 31 k $e-\pi n$ evts: 67	SHMS prescale pretrig: 278 k $\Sigma e-\pi n$ evts: 722	COIN pretrig: 271 k ☒ Data ok ☐ Junk
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Comments:

2.5 μ A

$Q = 8.523 \text{ mC}$
 $\Sigma Q = 87.8 \text{ mC}$

$p(e,e'\pi)n$ Run Sheet

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Date: 22/9/3
yy mm dd

Initials: BS

Continuation of Configuration:

$Q^2=1.6$ $w=3.08$, $x=0.1568$

Low ϵ SHMS Left

This sheet is only to be used to continue a running configuration.

LD -

Run Number: <u>16783</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>per / fadc</u>	Start time (RC GUI): <u>02:19</u> Stop time (RC GUI): <u>03:19</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>323</u> k pretrig: e- π n evts: <u>75</u>	SHMS prescale <u>288</u> k pretrig: Σ e- π n evts: <u>797</u>	COIN pretrig: <u>280</u> k ☒ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							
$Q=8.7$ mC $\Sigma Q=96.5$ mC							

Run Number: <u>16784</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>per / fadc</u>	Start time (RC GUI): <u>03:19</u> Stop time (RC GUI): <u>04:19</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>306</u> k pretrig: e- π n evts: <u>54</u>	SHMS prescale <u>273</u> k pretrig: Σ e- π n evts: <u>851</u>	COIN pretrig: <u>266</u> k ☒ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							
$Q=8.4$ mC $\Sigma Q=104.9$ mC							

Run Number: <u>16785</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>per / fadc</u>	Start time (RC GUI): <u>04:20</u> Stop time (RC GUI): <u>05:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>228</u> k pretrig: e- π n evts: <u>55</u>	SHMS prescale <u>203</u> k pretrig: Σ e- π n evts: <u>906</u>	COIN pretrig: <u>207</u> k ☒ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							
$Q=7.1$ mC $\Sigma Q=112.0$ mC							

Run Number: <u>16786</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>per / fadc</u>	Start time (RC GUI): <u>05:20</u> Stop time (RC GUI): <u>06:21</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>311</u> k pretrig: e- π n evts: <u>66</u>	SHMS prescale <u>280</u> k pretrig: Σ e- π n evts: <u>972</u>	COIN pretrig: <u>271</u> k ☒ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							
$Q=8.5$ mC $\Sigma Q=120.5$ mC							

Run Number: <u>16787</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>per / fadc</u>	Start time (RC GUI): <u>06:22</u> Stop time (RC GUI): <u>07:22</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>524</u> k pretrig: e- π n evts: <u>85</u>	SHMS prescale <u>276</u> k pretrig: Σ e- π n evts:	COIN pretrig: <u>265</u> k ☒ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							
$Q=8.996$ mC							

Run Number: <u>16788</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>per / fadc</u>	Start time (RC GUI): <u>07:23</u> Stop time (RC GUI): <u>07:55</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>167</u> k pretrig: e- π n evts: <u>33</u>	SHMS prescale <u>150</u> k pretrig: Σ e- π n evts:	COIN pretrig: <u>145</u> k ☒ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							
I don't add Q , as PS6 $\neq 1$ will be PS6 = -1 $Q=4.555$ mC							

$p(e,e'\pi)n$ Run Sheet

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Date: 22/9/3
yy mm dd

Initials: BS

Continuation of Configuration:

$$Q^2 = 1.6 \text{ w} = 3.08 \quad x = 0.1568$$

Low e SHMS Left

This sheet is only to be used to continue a running configuration.

LD-

Run Number: <u>16789</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>0</u> / fadc	Start time (RC GUI): <u>7:55</u> Stop time (RC GUI): <u>9:03:15</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>336</u> k $e-\pi n$ evts: <u>48</u>	SHMS prescale <u>303</u> k $\Sigma e-\pi n$ evts: <u>1050</u>	COIN pretrig: <u>294</u> k ☒ Data ok ☐ Junk
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$$I = 2.5 \mu A$$

$$Q = 9.383 \text{ mC}$$

$$\Sigma Q = 129.981 \text{ mC}$$

Run Number: <u>16790</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>0</u> / fadc	Start time (RC GUI): <u>9:09:00</u> Stop time (RC GUI): <u>9:50:17</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>218</u> k $e-\pi n$ evts: <u>45</u>	SHMS prescale <u>195</u> k $\Sigma e-\pi n$ evts: <u>1095</u>	COIN pretrig: <u>192</u> k ☒ Data ok ☐ Junk
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$$I = 2.5 \mu A$$

$$Q = 6.209 \text{ mC}$$

$$\Sigma Q = 136.190 \text{ mC}$$

Run Number: <u>16791</u>	☐ LH2 10cm ☒ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>0</u> / fadc	Start time (RC GUI): <u>10:10:07</u> Stop time (RC GUI): <u>11:09:30</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>130</u> k $e-\pi n$ evts: <u>10</u>	SHMS prescale <u>203</u> k $\Sigma e-\pi n$ evts: 1135	COIN pretrig: <u>111</u> k ☒ Data ok ☐ Junk
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$$I = 5.0 \mu A, 10 \mu A$$

$$Q = 31.057 \text{ mC}$$

Need $\sim 30 \text{ mC}$ more! 500k

Run Number: <u>16792</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>0</u> / fadc	Start time (RC GUI): <u>11:27:04</u> Stop time (RC GUI): <u>12:21:05</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>181</u> k $e-\pi n$ evts: <u>40</u>	SHMS prescale <u>162</u> k $\Sigma e-\pi n$ evts: <u>1135</u>	COIN pretrig: <u>168</u> k ☒ Data ok ☐ Junk
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$$I = 2.5 \mu A$$

$$Q = 6.037 \text{ mC}$$

$$\Sigma Q = 142.227 \text{ mC}$$

Run Number: <u>16793</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>0</u> / fadc	Start time (RC GUI): <u>12:47:09</u> Stop time (RC GUI): <u>13:46:13</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>250</u> k $e-\pi n$ evts: <u>56</u>	SHMS prescale <u>224</u> k $\Sigma e-\pi n$ evts: <u>1191</u>	COIN pretrig: <u>222</u> k ☒ Data ok ☐ Junk
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$$I = 2.5 \mu A$$

$$Q = 7.354 \text{ mC}$$

$$\Sigma Q = 149.581 \text{ mC}$$

Run Number: <u>16794</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>0</u> / fadc	Start time (RC GUI): <u>13:46:50</u> Stop time (RC GUI): <u>14:45:22</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>243</u> k $e-\pi n$ evts: <u>56</u>	SHMS prescale <u>218</u> k $\Sigma e-\pi n$ evts: <u>1247</u>	COIN pretrig: <u>214</u> k ☒ Data ok ☐ Junk
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$$I = 2.5 \mu A$$

$$Q = 6.878 \text{ mC}$$

$$\Sigma Q = 156.459 \text{ mC}$$

p(e,e' π)n Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22 / 9 / 3
yy mm dd

Initials: H.V.

G.H.

Continuation of Configuration:

$Q^2 = 1.6$, $w = 3.08$, $x = 0.1568$

Low E SHMS Left

LD-

This sheet is only to be used to continue a running configuration.

Run Number: 16795	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:09 Stop time (RC GUI): 17:09	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 282 k $e-\pi n$ evts: 72	SHMS prescale pretrig: 256 k $\Sigma e-\pi n$ evts: 1319	COIN pretrig: 247 k ☒ Data ok ☐ Junk
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771k evts

$Q = 8.084 \text{ mC}$
 $\Sigma Q = 164.523 \text{ mC}$

Run Number: 16796	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:09 Stop time (RC GUI): 18:10	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 283 k $e-\pi n$ evts: 65	SHMS prescale pretrig: 256 k $\Sigma e-\pi n$ evts: 1394	COIN pretrig: 250 k ☒ Data ok ☐ Junk
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25 μ A 776k evts.

$Q = 8.133 \text{ mC}$
 $\Sigma Q = 172.656 \text{ mC}$

Run Number: 16797	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:10 Stop time (RC GUI): 19:10	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 267 k $e-\pi n$ evts: 58	SHMS prescale pretrig: 240 k $\Sigma e-\pi n$ evts: 1442	COIN pretrig: 236 k ☒ Data ok ☐ Junk
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2.5 μ A 729k evts.

$Q = 7.782 \text{ mC}$
 $\Sigma Q = 180.43 \text{ mC}$

Run Number: 16798	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:11 Stop time (RC GUI): 20:10	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 281 k $e-\pi n$ evts: 63	SHMS prescale pretrig: 254 k $\Sigma e-\pi n$ evts: 1505	COIN pretrig: 247 k ☒ Data ok ☐ Junk
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2.5 μ A 769k evts

$Q = 8.029 \text{ mC}$
 $\Sigma Q = 188.46 \text{ mC}$

Run Number: 16799	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:11 Stop time (RC GUI): 21:10	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 295 k $e-\pi n$ evts: 75	SHMS prescale pretrig: 269 k $\Sigma e-\pi n$ evts: 1580	COIN pretrig: 257 k ☒ Data ok ☐ Junk
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2.5 μ A 805k evts

$Q = 8.1298 \text{ mC}$
 $\Sigma Q = 196.76 \text{ mC}$

Run Number: 16800	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:10 Stop time (RC GUI): 21:52	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 163 k $e-\pi n$ evts: 34	SHMS prescale pretrig: 146 k $\Sigma e-\pi n$ evts: 1614	COIN pretrig: 147 k ☒ Data ok ☐ Junk
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2.5 μ A Beam off since 21:44. 448k evts

$Q = 5.026 \text{ mC}$
 $\Sigma Q = 201.79 \text{ mC}$

p(e,e' π)n Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22 9 3
yy mm dd

Initials: GH

Continuation of Configuration:

$Q^2=1.60$ $W=3.08$ $LD-$

Low E $\theta_{SKMS}=6.0^\circ$ (LEFT)

This sheet is only to be used to continue a running configuration.

Run Number: 16801	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>22:19</u> Stop time (RC GUI): <u>23:18</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>291</u> k $e-\pi n$ evts: <u>72</u>	SHMS prescale pretrig: <u>263</u> k $\Sigma e-\pi n$ evts: <u>1686</u>	COIN pretrig: <u>255</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=8.24 mC$
 $\Sigma Q=210.03 mC$

Run Number: 16802	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>23:19</u> Stop time (RC GUI): <u>0:19</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>313</u> k $e-\pi n$ evts: <u>64</u>	SHMS prescale pretrig: <u>284</u> k $\Sigma e-\pi n$ evts: <u>1750</u>	COIN pretrig: <u>272</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=8.6 mC$
 $\Sigma Q=218.6 mC$

Run Number: 16803	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>0:20</u> Stop time (RC GUI): <u>1:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>290</u> k $e-\pi n$ evts: <u>72</u>	SHMS prescale pretrig: <u>265</u> k $\Sigma e-\pi n$ evts: <u>1822</u>	COIN pretrig: <u>255</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=8.2 mC$
 $\Sigma Q=226.93 mC$

Run Number: 16804	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>1:20</u> Stop time (RC GUI): <u>2:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>312</u> k $e-\pi n$ evts: <u>68</u>	SHMS prescale pretrig: <u>284</u> k $\Sigma e-\pi n$ evts: <u>1890</u>	COIN pretrig: <u>272</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=8.6 mC$
 $\Sigma Q=235.5 mC$

Run Number: 16805	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>2:21</u> Stop time (RC GUI): <u>3:21</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>295</u> k $e-\pi n$ evts: <u>57</u>	SHMS prescale pretrig: <u>268</u> k $\Sigma e-\pi n$ evts: <u>1947</u>	COIN pretrig: <u>258</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=8.3 mC$
 $\Sigma Q=243.8 mC$

Run Number: 16806	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:22</u> Stop time (RC GUI): <u>4:22</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>300</u> k $e-\pi n$ evts: <u>77</u>	SHMS prescale pretrig: <u>272</u> k $\Sigma e-\pi n$ evts: <u>2024</u>	COIN pretrig: <u>263</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=8.4 mC$
 $\Sigma Q=252.2 mC$

$p(e,e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22/9/14
yy mm dd

Initials: BS

Continuation of Configuration:

$Q^2=1.60$ $W=3.08$ $LD-$

Low ϵ $\theta_{SHMS} = 6.00$ left

This sheet is only to be used to continue a running configuration.

Run Number: 16807	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 4:22 Stop time (RC GUI): 5:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 296 k pretrig: $e-\pi n$ evts: 56	SHMS prescale 270 k pretrig: $\Sigma e-\pi n$ evts: 2080	COIN pretrig: 259 k ☒ Data ok ☐ Junk
Comments: $I = 2.5 \mu A$ $Q = 8.3 mC$ $\Sigma Q = 266.6 mC$							

Run Number: 16808	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 5:22 Stop time (RC GUI): 6:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 292 k pretrig: $e-\pi n$ evts: 89	SHMS prescale 265 k pretrig: $\Sigma e-\pi n$ evts: 2168	COIN pretrig: 257 k ☒ Data ok ☐ Junk
Comments: $I = 2.5 \mu A$ $Q = 8.2 mC$ $\Sigma Q = 268.8 mC$							

Run Number: 16809	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 6:22 Stop time (RC GUI): 7:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 287 k pretrig: $e-\pi n$ evts: 59	SHMS prescale 262 k pretrig: $\Sigma e-\pi n$ evts: 2227	COIN pretrig: 253 k ☒ Data ok ☐ Junk
Comments: $I = 2.5 \mu A$ $Q = 8.1 mC$ $\Sigma Q = 227.0 mC$							

Run Number: 16810	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 7:23:14 Stop time (RC GUI): 8:23:09	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 227 k pretrig: $e-\pi n$ evts: 61	SHMS prescale 207 k pretrig: $\Sigma e-\pi n$ evts: 2288	COIN pretrig: 199 k ☒ Data ok ☐ Junk
Comments: $I = 2.5 \mu A$ $Q = 6.553 mC$ $\Sigma Q = 283.615 mC$							

Run Number: 16811	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 8:23:50 Stop time (RC GUI): 9:23:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 264 k pretrig: $e-\pi n$ evts: 59	SHMS prescale 242 k pretrig: $\Sigma e-\pi n$ evts: 2344	COIN pretrig: 230 k ☒ Data ok ☐ Junk
Comments: $I = 2.5 \mu A$ $Q = 7.311 mC$ $\Sigma Q = 290.926 mC$							

Run Number: 16812	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 9:24:07 Stop time (RC GUI): 10:23:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 251 k pretrig: $e-\pi n$ evts: 65	SHMS prescale 228 k pretrig: $\Sigma e-\pi n$ evts: 2412	COIN pretrig: 220 k ☒ Data ok ☐ Junk
Comments: $I = 2.5 \mu A$ $Q = 6.980 mC$ $\Sigma Q = 297.906 mC$							

$p(e, e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22/09/4
yy mm dd

Initials: H.V.

Continuation of Configuration:

$Q^2=1.60$ $W=3.08$ $LD-$

This sheet is only to be used to continue a running configuration.

Low E $\theta_{SHMS}=6.00$ (Left)

Run Number: <u>16813</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>10:24:50</u> Stop time (RC GUI): <u>10:37:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>64</u> k pretrig: <u>16</u> $e-\pi n$ evts:	SHMS prescale <u>56</u> k pretrig: <u>2428</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>53</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=1.789 mC$
 $\Sigma Q=299.695 mC$

Run Number: <u>16814</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>12:06:02</u> Stop time (RC GUI): <u>13:02:26</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>124</u> k pretrig: <u>4</u> $e-\pi n$ evts:	SHMS prescale <u>195</u> k pretrig: <u>2499</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>105</u> k ☒ Data ok ☐ Junk
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$I=10 \mu A$

$Q=29.893 mC$
 $\Sigma Q=66.95$

Run Number: <u>16815</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>13:14:37</u> Stop time (RC GUI): <u>14:14:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>248</u> k pretrig: <u>71</u> $e-\pi n$ evts:	SHMS prescale <u>227</u> k pretrig: <u>2499</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>216</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=6.992 mC$
 $\Sigma Q=306.687 mC$

Run Number: <u>16816</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>14:14:56</u> Stop time (RC GUI): <u>15:14:19</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>205</u> k pretrig: <u>42</u> $e-\pi n$ evts:	SHMS prescale <u>188</u> k pretrig: <u>2541</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>182</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

$Q=6.187 mC$
 $\Sigma Q=312.874 mC$

Run Number: <u>16817</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>15:15:04</u> Stop time (RC GUI): <u>16:16</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>285</u> k pretrig: <u>76</u> $e-\pi n$ evts:	SHMS prescale <u>261</u> k pretrig: <u>2617</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>251</u> k ☒ Data ok ☐ Junk
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$I=2.5 \mu A$

782k evts

$Q=8.25 mC$
 $\Sigma Q=321.12 mC$

Run Number: <u>16818</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>16:17</u> Stop time (RC GUI): <u>17:17</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>277</u> k pretrig: <u>60</u> $e-\pi n$ evts:	SHMS prescale <u>253</u> k pretrig: <u>2677</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>244</u> k ☒ Data ok ☐ Junk
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761k evts

$Q=8.058 mC$
 $\Sigma Q=329.18 mC$

$p(e, e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22/09/04
yy mm dd

Initials: GH

Continuation of Configuration:

$Q^2 = 1.66$ $W = 3.08$ LD^-
Low ϵ $\Theta_{SKANS} = 6.00$ (144)

This sheet is only to be used to continue a running configuration.

Run Number: 16819	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:17 Stop time (RC GUI): 18:17	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 288 k $e-\pi n$ evts: 64	SHMS prescale pretrig: 236 k $\Sigma e-\pi n$ evts: 2741	COIN pretrig: 230 k ☒ Data ok ☐ Junk
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712k evts

$Q = 7.69 \text{ m C}$
 $\Sigma Q = 336.87 \text{ m C}$

Run Number: 16820	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:17 Stop time (RC GUI): 19:18	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 288 k $e-\pi n$ evts: 60	SHMS prescale pretrig: 264 k $\Sigma e-\pi n$ evts: 2801	COIN pretrig: 254 k ☒ Data ok ☐ Junk
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793k evts

$Q = 8.27 \text{ m C}$
 $\Sigma Q = 345.13$

Run Number: 16821	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:18 Stop time (RC GUI): 20:18	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 273 k $e-\pi n$ evts: 69	SHMS prescale pretrig: 249 k $\Sigma e-\pi n$ evts: 2870	COIN pretrig: 241 k ☒ Data ok ☐ Junk
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749k evts

$Q = 7.93 \text{ m C}$
 $\Sigma Q = 353.06 \text{ m C}$

Run Number: 16822	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:19 Stop time (RC GUI): 21:18	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 306 k $e-\pi n$ evts: 76	SHMS prescale pretrig: 281 k $\Sigma e-\pi n$ evts: 2946	COIN pretrig: 267 k ☒ Data ok ☐ Junk
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838k evts

$Q = 8.52 \text{ m C}$
 $\Sigma Q = 361.59 \text{ m C}$

Run Number: 16823	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:19 Stop time (RC GUI): 22:18	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 279 k $e-\pi n$ evts: 47	SHMS prescale pretrig: 256 k $\Sigma e-\pi n$ evts: 2993	COIN pretrig: 245 k ☒ Data ok ☐ Junk
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766k evts

$Q = 8.64 \text{ m C}$
 $\Sigma Q = 369.63$

Run Number: 16824	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:18 Stop time (RC GUI): 23:18	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 288 k $e-\pi n$ evts: 66	SHMS prescale pretrig: 264 k $\Sigma e-\pi n$ evts: 3059	COIN pretrig: 253 k ☒ Data ok ☐ Junk
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711k evts

$Q = 8.23 \text{ m C}$
 $\Sigma Q = 377.82$

$p(e,e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 29/09/04
yy mm dd

Initials: GH

Continuation of Configuration:

$Q^2 = 1.66$ $W = 3.08$ LD^-
 $Low \epsilon$ $\Theta_{SHMS} = 6.00^\circ$ $12 \mu A$

This sheet is only to be used to continue a running configuration.

Run Number: 16825	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>23:18</u> Stop time (RC GUI): <u>0:18</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>268</u> k pretrig: <u>63</u>	SHMS prescale <u>288</u> k pretrig: <u>3122</u>	COIN pretrig: <u>233</u> k ☒ Data ok ☐ Junk
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$Q = 7.7 \text{ mC}$
 $\Sigma Q = 385.6 \text{ mC}$

Run Number: 16826	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>00:19</u> Stop time (RC GUI): <u>1:19</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>284</u> k pretrig: <u>63</u>	SHMS prescale <u>261</u> k pretrig: <u>3185</u>	COIN pretrig: <u>251</u> k ☒ Data ok ☐ Junk
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$Q = 8.2 \text{ mC}$
 $\Sigma Q = 393.8 \text{ mC}$

Run Number: 16827	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>1:19</u> Stop time (RC GUI): <u>2:19</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>275</u> k pretrig: <u>61</u>	SHMS prescale <u>253</u> k pretrig: <u>3246</u>	COIN pretrig: <u>244</u> k ☒ Data ok ☐ Junk
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$Q = 8.6 \text{ mC}$
 $\Sigma Q = 401.8 \text{ mC}$

Run Number: 16828	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>2:20</u> Stop time (RC GUI): <u>3:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>247</u> k pretrig: <u>59</u>	SHMS prescale <u>172</u> k pretrig: <u>3305</u>	COIN pretrig: <u>260</u> k ☒ Data ok ☐ Junk
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$Q = 8.4 \text{ mC}$
 $\Sigma Q = 410.3 \text{ mC}$

Run Number: 16829	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:20</u> Stop time (RC GUI): <u>4:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>120</u> k pretrig: <u>30</u>	SHMS prescale <u>109</u> k pretrig: <u>3335</u>	COIN pretrig: <u>125</u> k ☒ Data ok ☐ Junk
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Significant beam down

$Q = 5.3 \text{ mC}$
 $\Sigma Q = 415.6 \text{ mC}$

Run Number: 16830	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:21</u> Stop time (RC GUI): <u>5:21</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>126</u> k pretrig: <u>24</u>	SHMS prescale <u>113</u> k pretrig: <u>3359</u>	COIN pretrig: <u>129</u> k ☒ Data ok ☐ Junk
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Significant Beam down

$Q = 5.4 \text{ mC}$
 $\Sigma Q = 471.0 \text{ mC}$

$p(e,e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22/9/5
yy mm dd

Initials: 135

Continuation of Configuration:

$Q^2=1.60$ $W=3.08$ LD-

Low Q $Q_{SHMS}=6.00$ (L)

This sheet is only to be used to continue a running configuration.

Run Number: 16831	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 5:21 Stop time (RC GUI): 6:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 238 k $e-\pi n$ evts: 63	SHMS prescale pretrig: 218 k $\Sigma e-\pi n$ evts: 3422	COIN pretrig: 214 k ☒ Data ok ☐ Junk
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Comments:

$Q=7.3$ mC

$\Sigma Q=428.4$ mC

Run Number: 16832	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 6:21 Stop time (RC GUI): 7:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 279 k $e-\pi n$ evts: 61	SHMS prescale pretrig: 257 k $\Sigma e-\pi n$ evts: 3483	COIN pretrig: 246 k ☒ Data ok ☐ Junk
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Comments:

$Q=8.0$ mC

$\Sigma Q=436.5$ mC

Run Number: 16833	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 7:21 Stop time (RC GUI): 8:20:53	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 253 k $e-\pi n$ evts: 44	SHMS prescale pretrig: 233 k $\Sigma e-\pi n$ evts: 3527	COIN pretrig: 226 k ☒ Data ok ☐ Junk
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Comments:

$Q=7.603$ mC

$\Sigma Q=444.14$ mC

Run Number: 16834	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 8:21:21 Stop time (RC GUI): 9:21:46	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 240 k $e-\pi n$ evts: 53	SHMS prescale pretrig: 220 k $\Sigma e-\pi n$ evts: 3580	COIN pretrig: 216 k ☒ Data ok ☐ Junk
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Comments:

$Q=7.437$ mC

$\Sigma Q=444.135$ mC
451.5

Run Number: 16835	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 9:22:13 Stop time (RC GUI): 10:21:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 258 k $e-\pi n$ evts: 59	SHMS prescale pretrig: 238 k $\Sigma e-\pi n$ evts: 3639	COIN pretrig: 231 k ☒ Data ok ☐ Junk
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Comments:

$Q=7.713$ mC

$\Sigma Q=451.5$ mC
453.2

Run Number: 16836	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:21:44 Stop time (RC GUI): 11:15:41	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 243 k $e-\pi n$ evts: 77	SHMS prescale pretrig: 223 k $\Sigma e-\pi n$ evts: 3716	COIN pretrig: 217 k ☒ Data ok ☐ Junk
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Comments:

$Q=7.373$ mC

$\Sigma Q=466.65$ mC

p(e,e' π)n Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 2022 / 03 / 05
yy mm dd

Initials: F+I

Continuation of Configuration:

$Q^2 = 1.6$, $W = 3.08$ LD⁻
low ϵ , $\theta_{\text{sums}} = 6.0^\circ$

This sheet is only to be used to continue a running configuration.

Run Number: 16837	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:20:11 Stop time (RC GUI): 12:17:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 268 k $e-\pi n$ evts: 68	SHMS prescale pretrig: 248 k $\Sigma e-\pi n$ evts: 3784	COIN pretrig: 235 k ☒ Data ok ☐ Junk
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$Q = 7.8 \text{ mC}$
 $\Sigma Q = 474.3 \text{ mC}$

Run Number: 16838	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:17:47 Stop time (RC GUI): 13:18:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 294 k $e-\pi n$ evts: 59	SHMS prescale pretrig: 270 k $\Sigma e-\pi n$ evts: 3843	COIN pretrig: 257 k ☒ Data ok ☐ Junk
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$Q = 8.4 \text{ mC}$
 $\Sigma Q = 482.7 \text{ mC}$

Run Number: 16839	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:18:53 Stop time (RC GUI): 14:18:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 285 k $e-\pi n$ evts: 73	SHMS prescale pretrig: 263 k $\Sigma e-\pi n$ evts: 3916	COIN pretrig: 250 k ☒ Data ok ☐ Junk
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$Q = 8.2 \text{ mC}$
 $\Sigma Q = 490.9 \text{ mC}$

Run Number: 16840	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:18:54 Stop time (RC GUI): 15:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 207 k $e-\pi n$ evts: 69	SHMS prescale pretrig: 282 k $\Sigma e-\pi n$ evts: 3985	COIN pretrig: 267 k ☒ Data ok ☐ Junk
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$Q = 8.6 \text{ mC}$
 $\Sigma Q = 499.5 \text{ mC}$

Run Number: 16841	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:20:31 Stop time (RC GUI): 16:21:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 274 k $e-\pi n$ evts: 60	SHMS prescale pretrig: 253 k $\Sigma e-\pi n$ evts: 4045	COIN pretrig: 242 k ☒ Data ok ☐ Junk
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$Q = 8.1 \text{ mC}$
 $\Sigma Q = 507.6 \text{ mC}$

Run Number: 16842	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:22:03 Stop time (RC GUI): 17:09:50	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 95 k $e-\pi n$ evts: 21	SHMS prescale pretrig: 87 k $\Sigma e-\pi n$ evts: 4066	COIN pretrig: 100 k ☒ Data ok ☐ Junk
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Short run. About 25 mins of beam.
Quad mismatch and beam down

$Q = 4.3 \text{ mC}$
 $\Sigma Q = 511.9$

$p(e,e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22 / 09 / 05
yy mm dd

Initials: MS

Continuation of Configuration:

$Q^2 = 1.6$, $W = 3.08$ LD2

low z , $\Theta_{\text{sums}} = 6.0^\circ$

This sheet is only to be used to continue a running configuration.

Run Number:

16843

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics ____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

19:13:38

Stop time (RC GUI):

20:21:16

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

HMS prescale pretrig: 248 k

$e-\pi n$ evts: 65

SHMS prescale pretrig: 228 k

$\Sigma e-\pi n$ evts: 4131

COIN pretrig: 228 k

☒ Data ok

☐ Junk

Comments:

Choppy beam

$Q = 8.000 \text{ mC}$
 $\Sigma Q = 519.9 \text{ mC}$

Run Number:

16844

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics ____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

20:21:49

Stop time (RC GUI):

21:19:15

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

HMS prescale pretrig: 231 k

$e-\pi n$ evts: 44

SHMS prescale pretrig: 213 k

$\Sigma e-\pi n$ evts: 4175

COIN pretrig: 209 k

☒ Data ok

☐ Junk

Comments:

$Q = 7.121 \text{ mC}$
 $\Sigma Q = 527.19 \text{ mC}$

Run Number:

16845

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics ____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

21:21:01

Stop time (RC GUI):

22:24:32

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

HMS prescale pretrig: 293 k

$e-\pi n$ evts: 103

SHMS prescale pretrig: 272 k

$\Sigma e-\pi n$ evts: 4278

COIN pretrig: 259 k

☒ Data ok

☐ Junk

Comments:

$Q = 8.509 \text{ mC}$
 $\Sigma Q = 535.688 \text{ mC}$

Run Number:

16846

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics ____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

22:25:07

Stop time (RC GUI):

23:25:14

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

HMS prescale pretrig: 284 k

$e-\pi n$ evts: 63

SHMS prescale pretrig: 262 k

$\Sigma e-\pi n$ evts: 4341

COIN pretrig: 251 k

☒ Data ok

☐ Junk

Comments:

$Q = 8.213 \text{ mC}$
 $\Sigma Q = 543.901 \text{ mC}$

Run Number:

16847

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics ____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

23:25:43

Stop time (RC GUI):

00:29

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

HMS prescale pretrig: 304 k

$e-\pi n$ evts: 86

SHMS prescale pretrig: 282 k

$\Sigma e-\pi n$ evts: 4427

COIN pretrig: 268 k

☒ Data ok

☐ Junk

Comments:

$Q = 8.773$
 $\Sigma Q = 552.674$

Run Number:

16848

- ☐ LH2 10cm
☒ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics ____ cm
☐ _____

PS1: 14
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

00:29

Stop time (RC GUI):

01:23

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

HMS prescale pretrig: 260 k

$e-\pi n$ evts: 58

SHMS prescale pretrig: 243 k

$\Sigma e-\pi n$ evts: 4485

COIN pretrig: 229 k

☒ Data ok

☐ Junk

Comments:

HMS Q1 interlock

$Q = 7.521$
 $\Sigma Q = 560.195$

$p(e, e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22 / 9 / 6
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 1.06$, $W = 3.08$, $LD2$
 $\theta_{low} = 2$, $Q_{rms} = 6.00^\circ$ (left)

This sheet is only to be used to continue a running configuration.

Run Number: <u>16849</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>01:37</u> Stop time (RC GUI): <u>02:43</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>338</u> k $e-\pi n$ evts: <u>63</u>	SHMS prescale pretrig: <u>313</u> k $\Sigma e-\pi n$ evts: <u>4548</u>	COIN pretrig: <u>244</u> k ☒ Data ok ☐ Junk
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$Q = 9.465$
 $\Sigma Q = 569.660$

Run Number: <u>16850</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>02:44</u> Stop time (RC GUI): <u>03:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>299</u> k $e-\pi n$ evts: <u>70</u>	SHMS prescale pretrig: <u>277</u> k $\Sigma e-\pi n$ evts: <u>4618</u>	COIN pretrig: <u>267</u> k ☒ Data ok ☐ Junk
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$Q = 8.428$
 $\Sigma Q = 578.088$

Run Number: <u>16851</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>03:43</u> Stop time (RC GUI): <u>04:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>290</u> k $e-\pi n$ evts: <u>65</u>	SHMS prescale pretrig: <u>268</u> k $\Sigma e-\pi n$ evts: <u>4683</u>	COIN pretrig: <u>256</u> k ☒ Data ok ☐ Junk
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$Q = 8.334$
 $\Sigma Q = 586.422$

Run Number: <u>16852</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>04:44</u> Stop time (RC GUI): <u>05:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>219</u> k $e-\pi n$ evts: <u>59</u>	SHMS prescale pretrig: <u>240</u> k $\Sigma e-\pi n$ evts: <u>4742</u>	COIN pretrig: <u>230</u> k ☒ Data ok ☐ Junk
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$Q = 7.780$
 $\Sigma Q = 594.122$

Run Number: <u>16853</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>05:43</u> Stop time (RC GUI): <u>06:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>243</u> k $e-\pi n$ evts: <u>74</u>	SHMS prescale pretrig: <u>253</u> k $\Sigma e-\pi n$ evts: <u>4816</u>	COIN pretrig: <u>241</u> k ☒ Data ok ☐ Junk
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$Q = 8.034$
 $\Sigma Q = 602.161$

Run Number: <u>16854</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>06:44</u> Stop time (RC GUI): <u>07:44</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>306</u> k $e-\pi n$ evts: <u>87</u>	SHMS prescale pretrig: <u>282</u> k $\Sigma e-\pi n$ evts: <u>4903</u>	COIN pretrig: <u>267</u> k ☒ Data ok ☐ Junk
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$Q = 8.555$
 $\Sigma Q = 610.716$

$p(e, e'\pi)n$ Run Sheet

can be found at lichen.phys.uregina.ca/~huberg/fpi/

Date: 22 / 9 / 6
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 1.06$, $w = 3.08$, $LD =$
 $low \Sigma$, $Q_{shms} = 6.00$ (left)

This sheet is only to be used to
continue a running configuration.

Run Number: <u>16855</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>7</u> PS2: <u>-7</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>7</u> Mode10: cer / fadc	Start time (RC GUI): <u>07:47</u> Stop time (RC GUI): <u>08:46</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>251</u> k pretrig: _____ $e-\pi n$ evts: <u>69</u>	SHMS prescale <u>231</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>4962</u>	COIN pretrig: <u>225</u> k ☒ Data ok ☐ Junk
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$Q = 7.6 \text{ mC}$
 $\Sigma Q = 618.3 \text{ mC}$

Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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