

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

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

Date: 22/08/25
yy mm dd

Initials: P.D

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 3.85$, $W = 2.62$, $x = 0.8913$

low E , SHMS center

$E_{\text{beam}}: 6.373 \text{ GeV}$

$I_{\text{beam}}: 7 \mu\text{A}$

Purpose:

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

Raster: ☒ On ☐ Off
Size: $2 \times 2 \text{ mm}^2$

HMS

$p: +0.158$
From GUI

$\theta(\text{TV}): 42.23$
Nearest 0.005

SHMS

$p: +0.5127$
From GUI

$\theta(\text{TV}): 8.00$
Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
-0.096 mm		-0.352 mm
Nomin:		Nomin:
3H07C	X	Y
-0.709 mm		-0.886 mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) 150.81 A B-HALL 0.10735 T	I-SET (from PSU) 1713.00 A B-HALL 10.807 kg	HB
Q2	I-SET (from PSU) 119.83 A B-HALL -0.20294 T	I-SET (from PSU) 1076.40 A B-HALL -7.594 kg	Q1
Q3	I-SET (from PSU) 58.13 A B-HALL 0.11646 T	I-SET (from PSU) 1808.04 A B-HALL 16.939 kg	Q2
D	I-READ 353.40 A B-NMR 0.3170 T	I-SET (from PSU) 1189.52 A B-HALL 11.471 kg	Q3
	If momentum increased: ☐ HMS cycled? N/A ☒ SHMS cycled?	I-SET (from PSU) 1635.68 A B-NMR -11.938 kg	D

Run Number:

16518

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

PS1: 13
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / 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

Comments:

~~FADC MODE 10~~

Run Number:

16519

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

PS1: 13
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / 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

Comments:

FADC mode 10

7 μA

Run Number:

16520

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

PS1: 13
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: 61 k

$e-\pi n$ evts:
7

SHMS prescale
pretrig: 88 k

$\Sigma e-\pi n$ evts:
7

COIN
pretrig: 25 k

- ☒ Data ok
☐ Junk

Comments:

7 μA | HMS dipole NMR was fluctuating. Had to reset the set current
hence stopped the run. $Q = 5.215$

Run Number:

16521

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

PS1: 15
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: 110 k

$e-\pi n$ evts:
36

SHMS prescale
pretrig: 140 k

$\Sigma e-\pi n$ evts:
43

COIN
pretrig: 386 k

- ☒ Data ok
☐ Junk

Comments:

We raised the current to 23 μA . SHMS-SIX $\rightarrow 2.13 \text{ MHz}$ and SHMS-3/4 $\rightarrow 30 \text{ kHz}$
Now: COIN rate (PS5) $\approx 260 \text{ Hz}$. Overall DAQ rate: $\approx 400 \text{ Hz}$, 100% live time.
!! We were looking at wrong trigger. pTRIGet was twice as high! $\rightarrow$ Stopping the run and lowering

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

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

Date: 22/08/25
yy mm dd

Initials: PD

Continuation of Configuration:

$Q = 3.85$, $W = 2.62$, $x = 0.3915$

low E , SAMS ~~left~~ center

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

Run Number: 16522	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10 (cer) / fadc	Start time (RC GUI): 12:08:43 Stop time (RC GUI): 13:13:09	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 386 k pretrig: $e-\pi n$ evts: 41	SHMS prescale 279 k pretrig: $\Sigma e-\pi n$ evts: 84	COIN pretrig: 186 k ☒ Data ok ☐ Junk
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Comments: 10 μ A

$Q = 33.636$
 $\Sigma Q = 75.039$

Run Number: 16523	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10 (cer) / fadc	Start time (RC GUI): 13:13:43 Stop time (RC GUI): 14:16	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 375 k pretrig: $e-\pi n$ evts: 53	SHMS prescale 273 k pretrig: $\Sigma e-\pi n$ evts: 137	COIN pretrig: 181 k ☒ Data ok ☐ Junk
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Comments: 10 μ A

$Q = 32.786$
 $\Sigma Q = 107.825$

Run Number: 16524	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10 (cer) / fadc	Start time (RC GUI): 14:17:19 Stop time (RC GUI): 15:29:15	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 374 k pretrig: $e-\pi n$ evts: 56	SHMS prescale 271 k pretrig: $\Sigma e-\pi n$ evts: 193	COIN pretrig: 185 k ☒ Data ok ☐ Junk
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Comments: 10 μ A

$Q = 32.558$
 $\Sigma Q = 140.383$

Run Number: 16525	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10 (cer) / fadc	Start time (RC GUI): 15:29:53 Stop time (RC GUI): 16:29:42	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 357 k pretrig: $e-\pi n$ evts: 40	SHMS prescale 260 k pretrig: $\Sigma e-\pi n$ evts: 233	COIN pretrig: 173 k ☒ Data ok ☐ Junk
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Comments: 10 μ A

$Q = 31.240$
 $\Sigma Q = 171.623$

Run Number: 16526	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10 (cer) / fadc	Start time (RC GUI): 16:30:51 Stop time (RC GUI): 17:30:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 2953 k pretrig: $e-\pi n$ evts: 42	SHMS prescale 240 k pretrig: $\Sigma e-\pi n$ evts: 275	COIN pretrig: 161 k ☒ Data ok ☐ Junk
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Comments: HMS 3/4 @ 10 μ A

$Q = 28.813$
 $\Sigma Q = 200.436$

Run Number: 16527	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10 (cer) / fadc	Start time (RC GUI): 17:31:27 Stop time (RC GUI): 18:30:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 358 k pretrig: $e-\pi n$ evts: 41	SHMS prescale 262 k pretrig: $\Sigma e-\pi n$ evts: 316	COIN pretrig: 183 k ☒ Data ok ☐ Junk
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Comments: changed I BEAM from 10 to 11 μ A starting ~ 1.5M events.

$Q = 31.543$
 $\Sigma Q = 231.979$

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

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

Date: 22/08/25
yy mm dd

Initials: VHT

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.3915$

low ϵ , SHMS center

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

Run Number: 16528	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 18:31:27 Stop time (from RC): 18:30:09	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 330 k $e-\pi n$ evts: 36	SHMS prescale pretrig: 242 k $\Sigma e-\pi n$ evts: 352	COIN pretrig: 174 k ☒ Data ok ☐ Junk
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Comments:
11 μA

$Q = 29.254$
 $\Sigma Q = 261.233$

Run Number: 16529	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 19:31:23 Stop time (from RC): 20:30:04	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 383 k $e-\pi n$ evts: 56	SHMS prescale pretrig: 281 k $\Sigma e-\pi n$ evts: 408	COIN pretrig: 196 k ☒ Data ok ☐ Junk
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Comments:
11 μA

$Q = 33.983$
 $\Sigma Q = 295.216$

Run Number: 16530	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 20:30:44 Stop time (from RC): 21:30:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 376 k $e-\pi n$ evts: 62	SHMS prescale pretrig: 276 k $\Sigma e-\pi n$ evts: 470	COIN pretrig: 193 k ☒ Data ok ☐ Junk
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Comments:
11 μA

$Q = 33.590$
 $\Sigma Q = 328.806$

Run Number: 16531	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 21:31:45 Stop time (from RC): 22:30:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 377 k $e-\pi n$ evts: 48	SHMS prescale pretrig: 277 k $\Sigma e-\pi n$ evts: 518	COIN pretrig: 206 k ☒ Data ok ☐ Junk
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Comments:
12 μA beam current.

$Q = 33.749$
 $\Sigma Q = 362.555$

Run Number: 16532	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 22:30:47 Stop time (from RC): 23:30:04	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 416 k $e-\pi n$ evts: 54	SHMS prescale pretrig: 307 k $\Sigma e-\pi n$ evts: 572	COIN pretrig: 225 k ☒ Data ok ☐ Junk
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Comments:
12 μA .

$Q = 37.486$
 $\Sigma Q = 400.041$

Run Number: 16533	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 23:30:44 Stop time (from RC): 0:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 424 k $e-\pi n$ evts: 69	SHMS prescale pretrig: 312 k $\Sigma e-\pi n$ evts: 641	COIN pretrig: 231 k ☒ Data ok ☐ Junk
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Comments:
12 μA

$Q = 37.958$
 $\Sigma Q = 437.999$

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

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

Date: 22/08/26
yy mm dd

Initials: NH

Continuation of Configuration:

$$Q^2 = 3.85, W = 2.62, x = 0.3913$$

low E, SHMS center

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

Run Number: 16534	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 0:31 Stop time (from RC): 1:33	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 444 k $e-\pi n$ evts: 63	SHMS prescale pretrig: 327 k $\Sigma e-\pi n$ evts: 704	COIN pretrig: 241 k ☒ Data ok ☐ Junk
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12 μ A

$$Q = 39.973$$
$$\Sigma Q = 477.97 \text{ mC}$$

Run Number: 16535	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 1:34 Stop time (from RC): 2:33	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 353 k $e-\pi n$ evts: 53	SHMS prescale pretrig: 260 k $\Sigma e-\pi n$ evts: 757	COIN pretrig: 196 k ☒ Data ok ☐ Junk
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12 μ A

$$Q = 31.757$$
$$\Sigma Q = 509.729$$

Run Number: 16536	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 2:33 Stop time (from RC): 3:36	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 441 k $e-\pi n$ evts: 69	SHMS prescale pretrig: 327 k $\Sigma e-\pi n$ evts: 826	COIN pretrig: 240 k ☒ Data ok ☐ Junk
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12 μ A

$$Q = 39.948$$
$$\Sigma Q = 549.677 \text{ mC}$$

Run Number: 16537	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 3:36 Stop time (from RC): 4:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 385 k $e-\pi n$ evts: 41	SHMS prescale pretrig: 285 k $\Sigma e-\pi n$ evts: 867	COIN pretrig: 211 k ☒ Data ok ☐ Junk
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12 μ A

$$Q = 34.697$$
$$\Sigma Q = 584.374$$

Run Number: 16538	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 4:35 Stop time (from RC): 5:38	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 448 k $e-\pi n$ evts: 65	SHMS prescale pretrig: 334 k $\Sigma e-\pi n$ evts: 932	COIN pretrig: 244 k ☒ Data ok ☐ Junk
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12 μ A

$$Q = 40.726$$
$$\Sigma Q = 625.100 \text{ mC}$$

Run Number: 16539	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 5:38 Stop time (from RC): 6:38	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 408 k $e-\pi n$ evts: 55	SHMS prescale pretrig: 304 k $\Sigma e-\pi n$ evts: 987	COIN pretrig: 222 k ☒ Data ok ☐ Junk
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12 μ A

$$Q = 37.020$$
$$\Sigma Q = 662.120$$

p(e,e' π)n Run Sheet

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

Date: 22/08/26
yy mm dd

Initials: NH

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.3915$

low E, SHMS center

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

Run Number: 16540	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>6:39</u> Stop time (from RC): <u>6:55</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>31</u> k $e-\pi n$ evts: <u>2</u>	SHMS prescale pretrig: <u>22</u> k $\Sigma e-\pi n$ evts: <u>989</u>	COIN pretrig: <u>23</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

ended due to beam down

$Q = 2.746$

$\Sigma Q = 664.866$

Run Number: 16541	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>08:10:40</u> Stop time (from RC): <u>09:10:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>398</u> k $e-\pi n$ evts: <u>52</u>	SHMS prescale pretrig: <u>298</u> k $\Sigma e-\pi n$ evts: <u>1041</u>	COIN pretrig: <u>217</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 36.413$

$\Sigma Q = 701.279$

Run Number: 16542	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>09:10:52</u> Stop time (from RC): <u>10:10:05</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>397</u> k $e-\pi n$ evts: <u>70</u>	SHMS prescale pretrig: <u>297</u> k $\Sigma e-\pi n$ evts: <u>1111</u>	COIN pretrig: <u>218</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 36.150$ mC

$\Sigma Q = 737.429$ mC

Run Number: 16543	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>10:10:51</u> Stop time (from RC): <u>11:09:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>415</u> k $e-\pi n$ evts: <u>56</u>	SHMS prescale pretrig: <u>312</u> k $\Sigma e-\pi n$ evts: <u>1167</u>	COIN pretrig: <u>226</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 38.156$

$\Sigma Q = 775.585$

Run Number: 16544	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>11:10:15</u> Stop time (from RC): <u>12:10:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>417</u> k $e-\pi n$ evts: <u>51</u>	SHMS prescale pretrig: <u>312</u> k $\Sigma e-\pi n$ evts: <u>1218</u>	COIN pretrig: <u>226</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 38.275$

$\Sigma Q = 813.860$

Run Number: 16545	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>12:11:45</u> Stop time (from RC): <u>13:10:10</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>235</u> k $e-\pi n$ evts: <u>38</u>	SHMS prescale pretrig: <u>179</u> k $\Sigma e-\pi n$ evts: <u>1256</u>	COIN pretrig: <u>99</u> k ☒ Data ok ☐ Junk
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Comments:

7 μ A

$Q = 21.219$

$\Sigma Q = 825.079$

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

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

Date: 22/08/26
yy mm dd

Initials: VHT

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.3915$
low z , SHMS center

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

Run Number: 16546	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>13:10:53</u> Stop time (from RC): <u>14:01:45</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>176</u> k $e-\pi n$ evts: <u>20</u>	SHMS prescale <u>134</u> k $\Sigma e-\pi n$ evts: <u>1276</u>	COIN pretrig: <u>78</u> k ☒ Data ok ☐ Junk
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Comments:

$7 \mu A$. Stopped due to beam off.

$Q = 15.715$
 $\Sigma Q = 850.794$

Run Number: 16547	☐ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>14:50</u> Stop time (from RC): <u>14:51</u>	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k $e-\pi n$ evts: _____	SHMS prescale _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☒ Junk
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Comments:

Junk

Run Number: 16548	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>15:12:54</u> Stop time (from RC): <u>16:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>256</u> k $e-\pi n$ evts: <u>34</u>	SHMS prescale <u>196</u> k $\Sigma e-\pi n$ evts: <u>1310</u>	COIN pretrig: <u>106</u> k ☒ Data ok ☐ Junk
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Comments:

$I_{beam} \sim 7 \mu A$

$Q = 23.202$
 $\Sigma Q = 873.996$

Run Number: 16549	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>16:14</u> Stop time (from RC): <u>17:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>236</u> k $e-\pi n$ evts: <u>38</u>	SHMS prescale <u>181</u> k $\Sigma e-\pi n$ evts: <u>1348</u>	COIN pretrig: <u>100</u> k ☒ Data ok ☐ Junk
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Comments:

$I_{beam} \sim 7 \mu A$

$Q = 21.419$
 $\Sigma Q = 895.415$

Run Number: 16550	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>17:16</u> Stop time (from RC): <u>18:17</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>343</u> k $e-\pi n$ evts: <u>65</u>	SHMS prescale <u>262</u> k $\Sigma e-\pi n$ evts: <u>1413</u>	COIN pretrig: <u>168</u> k ☒ Data ok ☐ Junk
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Comments:

$I_{beam} \sim 10 \mu A$

$Q = 31.527$
 $\Sigma Q = 926.942$

Run Number: 16551	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>18:18</u> Stop time (from RC): <u>19:23:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>444</u> k $e-\pi n$ evts: <u>81</u>	SHMS prescale <u>339</u> k $\Sigma e-\pi n$ evts: <u>1494</u>	COIN pretrig: <u>242</u> k ☒ Data ok ☐ Junk
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Comments:

$I_{beam} \sim 12 \mu A$

$Q = 41.302$
 $\Sigma Q = 968.244$

p(e,e' π)n Run Sheet

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

Date: 22/08/26
yy mm dd

Initials: H.M.

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $X = 0.39$
Low ϵ , SHMS center

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

Run Number: 16552	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 19:24:15 Stop time (from RC): 20:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 209 k $e-\pi n$ evts: 23	SHMS prescale pretrig: 157 k $\Sigma e-\pi n$ evts: 1517	COIN pretrig: 129 k ☒ Data ok ☐ Junk
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$I_{beam} \sim 12 \mu A$
Ended run, beam OFF

$Q = 19.181$
 $\Sigma Q = 988.425$

Run Number: 16553	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 20:32 Stop time (from RC): 21:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 429 k $e-\pi n$ evts: 71	SHMS prescale pretrig: 327 k $\Sigma e-\pi n$ evts: 1588	COIN pretrig: 237 k ☒ Data ok ☐ Junk
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$I_{beam} \sim 12 \mu A$

$Q = 39.890$
 $\Sigma Q = 1027.315$

Run Number: 16554	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 21:51 Stop time (from RC): 22:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 392 k $e-\pi n$ evts: 53	SHMS prescale pretrig: 298 k $\Sigma e-\pi n$ evts: 1641	COIN pretrig: 216 k ☒ Data ok ☐ Junk
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$I_{beam} \sim 12 \mu A$

$Q = 36.354$
 $\Sigma Q = 1063.669$

Run Number: 16555	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 22:53 Stop time (from RC): 23:51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 395 k $e-\pi n$ evts: 58	SHMS prescale pretrig: 303 k $\Sigma e-\pi n$ evts: 1699	COIN pretrig: 216 k ☒ Data ok ☐ Junk
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$I_{beam} \sim 12 \mu A$

$Q = 36.944$
 $\Sigma Q = 1400.613$

Run Number: 16556	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 23:51 Stop time (from RC): 00:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 447 k $e-\pi n$ evts: 63	SHMS prescale pretrig: 342 k $\Sigma e-\pi n$ evts: 1762	COIN pretrig: 246 k ☒ Data ok ☐ Junk
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$I_{beam} \sim 12 \mu A$

$Q = 41.748$
 $\Sigma Q = 1442.361$

Run Number: 16557	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1	Start time (from RC): 00:59 Stop time (from RC): 01:57	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 409 k $e-\pi n$ evts: 71	SHMS prescale pretrig: 313 k $\Sigma e-\pi n$ evts: 1833	COIN pretrig: 223 k ☒ Data ok ☐ Junk
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$I = 12 \mu A$

$Q = 38.184$
 $\Sigma Q = 1480.545$

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

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

Date: 22 / 8 / 27
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.39$

Low ϵ , SHMS Center

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

Run Number: <u>16558</u>	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>01:58</u> Stop time (from RC): <u>02:58</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>425</u> k $e-\pi n$ evts: <u>58</u>	SHMS prescale pretrig: <u>327</u> k $\Sigma e-\pi n$ evts: <u>1891</u>	COIN pretrig: <u>231</u> k ☒ Data ok ☐ Junk
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Comments:

$I = 12 \mu A$

$Q = 39.870$

$\Sigma Q = 1226.415$

Run Number: <u>16559</u>	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>02:59</u> Stop time (from RC): <u>03:57</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>400</u> k $e-\pi n$ evts: <u>61</u>	SHMS prescale pretrig: <u>307</u> k $\Sigma e-\pi n$ evts: <u>1953</u>	COIN pretrig: <u>218</u> k ☒ Data ok ☐ Junk
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Comments:

$I = 12 \mu A$

$Q = 37.422$

$\Sigma Q = 1257.837$

Run Number: <u>16560</u>	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>03:57</u> Stop time (from RC): <u>04:59</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>398</u> k $e-\pi n$ evts: <u>58</u>	SHMS prescale pretrig: <u>306</u> k $\Sigma e-\pi n$ evts: <u>2011</u>	COIN pretrig: <u>219</u> k ☒ Data ok ☐ Junk
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Comments:

$I = 12 \mu A$

$Q = 37.299$

$\Sigma Q = 1295.136$

Run Number: <u>16561</u>	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>04:59</u> Stop time (from RC): <u>06:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>413</u> k $e-\pi n$ evts: <u>44</u>	SHMS prescale pretrig: <u>317</u> k $\Sigma e-\pi n$ evts: <u>2055</u>	COIN pretrig: <u>228</u> k ☒ Data ok ☐ Junk
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Comments:

$I = 12 \mu A$

~~$Q = 38.616$~~ $Q = 38.616$

~~$\Sigma Q = 1333.752$~~ $\Sigma Q = 1333.752$

Run Number: <u>16562</u>	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>06:05</u> Stop time (from RC): <u>07:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 413 <u>565</u> k $e-\pi n$ evts: 44 <u>76</u>	SHMS prescale pretrig: 317 <u>436</u> k $\Sigma e-\pi n$ evts: 2055 <u>2131</u>	COIN pretrig: <u>308</u> k ☒ Data ok ☐ Junk
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Comments:

$I = 12 \mu A$

$Q = 53.171 mC$

$\Sigma Q = 1386.923 mC$

Run Number: <u>16563</u>	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>07:28</u> Stop time (from RC): <u>08:28</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>401</u> k $e-\pi n$ evts: <u>62</u>	SHMS prescale pretrig: <u>309</u> k $\Sigma e-\pi n$ evts: <u>2193</u>	COIN pretrig: <u>220</u> k ☒ Data ok ☐ Junk
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Comments:

$I = 12 \mu A$

$Q = 37.665 mC$

$\Sigma Q = 1424.588 mC$

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

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

Date: 22/8/27
yy mm dd

Initials: H. V.

Continuation of Configuration:

$Q^2 = 3.85$ $W = 2.62$

Low E SHMS Center

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

Run Number: 16564	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>08:29:19</u> Stop time (from RC): <u>09:29:17</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>332</u> k e- π n evts: <u>41</u>	SHMS prescale <u>258</u> k Σ e- π n evts: <u>2234</u>	COIN pretrig: <u>183</u> k ☒ Data ok ☐ Junk
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$I = 12 \mu A$

$Q = 31.607 mC$
 $\Sigma Q = 1456.195 mC$

Run Number: 16565	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>09:29:59</u> Stop time (from RC): <u>10:29:12</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>363</u> k e- π n evts: <u>52</u>	SHMS prescale <u>281</u> k Σ e- π n evts: <u>2286</u>	COIN pretrig: <u>198</u> k ☒ Data ok ☐ Junk
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$I = 12 \mu A$

$Q = 34.351 mC$
 $\Sigma Q = 1490.546 mC$

Run Number: 16566	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>10:29:42</u> Stop time (from RC): <u>11:30:02</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>400</u> k e- π n evts: <u>54</u>	SHMS prescale <u>308</u> k Σ e- π n evts: <u>2340</u>	COIN pretrig: <u>220</u> k ☒ Data ok ☐ Junk
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$I = 12 \mu A$

$Q = 37.662 mC$
 $\Sigma Q = 1528.208 mC$

Run Number: 16567	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>11:30:55</u> Stop time (from RC): <u>12:29:59</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>301</u> k e- π n evts: <u>37</u>	SHMS prescale <u>234</u> k Σ e- π n evts: <u>2377</u>	COIN pretrig: <u>167</u> k ☒ Data ok ☐ Junk
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$I = 12 \mu A$

$Q = 28.608 mC$
 $\Sigma Q = 1556.816 mC$

Run Number: 16568	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>12:30:55</u> Stop time (from RC): <u>13:30:13</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>318</u> k e- π n evts: <u>47</u>	SHMS prescale <u>247</u> k Σ e- π n evts: <u>2424</u>	COIN pretrig: <u>174</u> k ☒ Data ok ☐ Junk
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$I = 12 \mu A$

$Q = 30.224 mC$
 $\Sigma Q = 1587.040 mC$

Run Number: 16569	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>13:30:49</u> Stop time (from RC): <u>13:55:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>158</u> k e- π n evts: <u>25</u>	SHMS prescale <u>122</u> k Σ e- π n evts: <u>2449</u>	COIN pretrig: <u>86</u> k ☒ Data ok ☐ Junk
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$I = 12 \mu A$

$Q = 14.921 mC$
 $\Sigma Q = 1601.961 mC$

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

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

Date: 22/8/27
yy mm dd

Initials: H.V.

Continuation of Configuration:

$Q^2=3.85$ $W=2.62$

Low E SHMS Center

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

Run Number: 16570	☐ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☒ Dummy	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>14:12:59</u> Stop time (from RC): <u>15:09:42</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>137</u> k $e-\pi n$ evts: <u>10</u>	SHMS prescale pretrig: <u>166</u> k $\Sigma e-\pi n$ evts: <u>10</u>	COIN pretrig: <u>72</u> k ☒ Data ok ☐ Junk
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$I=30\mu A$ (5 mins) $\rightarrow 40\mu A$

$Q=104.739mC$
 $\Sigma Q=104.739mC$

Run Number: 16571	☐ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☒ Dummy	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>15:13:50</u> Stop time (from RC): <u>16:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>7</u> k $e-\pi n$ evts: <u>7</u>	SHMS prescale pretrig: <u>17</u> k $\Sigma e-\pi n$ evts: <u>17</u>	COIN pretrig: <u>72</u> k ☒ Data ok ☐ Junk
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40 μA

597k events

$Q=171.82mC$
 $\Sigma Q=2765mC$

Run Number: 16572	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>16:43</u> Stop time (from RC): <u>17:43</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>456</u> k $e-\pi n$ evts: <u>69</u>	SHMS prescale pretrig: <u>355</u> k $\Sigma e-\pi n$ evts: <u>2518</u>	COIN pretrig: <u>276</u> k ☒ Data ok ☐ Junk
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14 μA

1.05M events

$Q=43.7mC$
 $\Sigma Q=1645.7mC$

Run Number: 16573	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>17:44</u> Stop time (from RC): <u>18:44</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>439</u> k $e-\pi n$ evts: <u>49</u>	SHMS prescale pretrig: <u>341</u> k $\Sigma e-\pi n$ evts: <u>2567</u>	COIN pretrig: <u>266</u> k ☒ Data ok ☐ Junk
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14 μA

1.02M events

$Q=41.9mC$
 $\Sigma Q=1687.6mC$

Run Number: 16574	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>18:44</u> Stop time (from RC): <u>19:43</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>352</u> k $e-\pi n$ evts: <u>37</u>	SHMS prescale pretrig: <u>274</u> k $\Sigma e-\pi n$ evts: <u>2604</u>	COIN pretrig: <u>221</u> k ☒ Data ok ☐ Junk
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14 μA

822k events

$Q=33.6mC$
 $\Sigma Q=1721.3mC$

Run Number: 16575	☐ LH2 10cm ☒ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>19:44</u> Stop time (from RC): <u>20:43</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>457</u> k $e-\pi n$ evts: <u>69</u>	SHMS prescale pretrig: <u>356</u> k $\Sigma e-\pi n$ evts: <u>2673</u>	COIN pretrig: <u>278</u> k ☒ Data ok ☐ Junk
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14 μA

1.06M events

$Q=43.8mC$
 $\Sigma Q=1765.1mC$

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

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

Date: 22/08/27
yy mm dd

Initials: GH

Continuation of Configuration:

$Q^2 = 3.05$ $W = 2.62$

low ϵ $\Theta_{\text{SHMS}} = 8.000^\circ$ (center)

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

Run Number: 16576	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cep</u> / fadc	Start time (RC GUI): <u>20:44</u> Stop time (RC GUI): <u>22:00</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>534</u> k $e-\pi n$ evts: <u>88</u>	SHMS prescale pretrig: <u>416</u> k $\Sigma e-\pi n$ evts: <u>2761</u>	COIN pretrig: <u>328</u> k ☒ Data ok ☐ Junk
Comments: 14 nA 1.28 MeV $Q = 51.2 \text{ mC}$ $\Sigma Q = 1816.3 \text{ mC}$							

Run Number: 16577	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cep</u> / fadc	Start time (RC GUI): <u>22:01</u> Stop time (RC GUI): <u>23:00</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>407</u> k $e-\pi n$ evts: <u>59</u>	SHMS prescale pretrig: <u>320</u> k $\Sigma e-\pi n$ evts: <u>2820</u>	COIN pretrig: <u>223</u> k ☒ Data ok ☐ Junk
Comments: 12 nA 927K events $Q = 39.0 \text{ mC}$ $\Sigma Q = 1855.3 \text{ mC}$							

Run Number: 16578	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cep</u> / fadc	Start time (RC GUI): <u>23:01</u> Stop time (RC GUI): <u>23:59</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>342</u> k $e-\pi n$ evts: <u>44</u>	SHMS prescale pretrig: <u>269</u> k $\Sigma e-\pi n$ evts: <u>2864</u>	COIN pretrig: <u>191</u> k ☒ Data ok ☐ Junk
Comments: 12 nA 782k events $Q = 32.7 \text{ mC}$ $\Sigma Q = 1888.0 \text{ mC}$							

Run Number: 16579	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cep</u> / fadc	Start time (RC GUI): <u>00:00</u> Stop time (RC GUI): <u>01:01</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>416</u> k $e-\pi n$ evts: <u>71</u>	SHMS prescale pretrig: <u>327</u> k $\Sigma e-\pi n$ evts: <u>2935</u>	COIN pretrig: <u>226</u> k ☒ Data ok ☐ Junk
Comments: 12 nA $Q = 39.856$ $\Sigma Q = 1927.902$							

Run Number: 16580	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cep</u> / fadc	Start time (RC GUI): <u>01:01</u> Stop time (RC GUI): <u>02:00</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>397</u> k $e-\pi n$ evts: <u>50</u>	SHMS prescale pretrig: <u>313</u> k $\Sigma e-\pi n$ evts: <u>2985</u>	COIN pretrig: <u>214</u> k ☒ Data ok ☐ Junk
Comments: 12 nA $Q = 38.153$ $\Sigma Q = 1966.055$							

Run Number: 16581	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cep</u> / fadc	Start time (RC GUI): <u>02:01</u> Stop time (RC GUI): <u>02:55</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>382</u> k $e-\pi n$ evts: <u>55</u>	SHMS prescale pretrig: <u>362</u> k $\Sigma e-\pi n$ evts: <u>3040</u>	COIN pretrig: <u>209</u> k ☒ Data ok ☐ Junk
Comments: 12 nA $Q = 36.408$ $\Sigma Q = 2002.963$							

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

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

Date: 22 / 8 / 20
yy mm dd

Initials: PLT

Continuation of Configuration:

$$Q^2 = 3.85 \quad W = 2.62$$

$$\theta_{\text{HMS}} = 8.00^\circ (\text{center})$$

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

Run Number: 16582	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:56 Stop time (RC GUI): 02:58	☒ 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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Junk → Interlock

Run Number: 16583	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:10 Stop time (RC GUI): 03:54	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 286 k $e-\pi n$ evts: 37	SHMS prescale pretrig: 226 k $\Sigma e-\pi n$ evts: 3077	COIN pretrig: 158 k ☒ Data ok ☐ Junk
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12mA

End early b/c interlock

$$Q = 2.7585$$
$$\Sigma Q = 2030.548$$

Run Number: 16594	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:08 Stop time (RC GUI): 05:08	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 362 k $e-\pi n$ evts: 49	SHMS prescale pretrig: 286 k $\Sigma e-\pi n$ evts: 3126	COIN pretrig: 202 k ☒ Data ok ☐ Junk
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12mA

$$Q = 34.833$$
$$\Sigma Q = 2065.381$$

Run Number: 16585	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:08 Stop time (RC GUI): 05:46	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 41 k $e-\pi n$ evts: 11	SHMS prescale pretrig: 71 k $\Sigma e-\pi n$ evts: 3137	COIN pretrig: 63 k ☒ Data ok ☐ Junk
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12mA

Beam down

$$Q = 8.620$$
$$\Sigma Q = 2074.001$$

Run Number: 16586	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:25:48 Stop time (RC GUI): 12:32:12	☒ 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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$$I = 27 \mu A$$

Changed to $\theta_{\text{SHMS}} = 10.000^\circ$

FADC-10 run

Run Number: 16587	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:33:28 Stop time (RC GUI): 12:35:12	☒ 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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$$I = 27 \mu A$$

Junk

- 11 -

Junk

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

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

Date: 22/8/28
yy mm dd

Initials: L.S.

Use a separate sheet for each configuration.

Configuration Name:

$Q=3.85$, $W=2.62$, $X=0.3915$
low ϵ , SHMS left

E_{beam} : 6.373 GeV

I_{beam} : 38 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2 mm

HMS

SHMS

Q1	I-SET (from PSU) 150.7710	A	I-SET (from PSU) 1713.3610	A	HB
	B-HALL 0.19979	T	B-HALL 16.801	kG	
Q2	I-SET (from PSU) 119.7700	A	I-SET (from PSU) 1076.5100	A	Q1
	B-HALL -0.20354	T	B-HALL -7.595	kG	
Q3	I-SET (from PSU) 58.1489	A	I-SET (from PSU) 1808.2000	A	Q2
	B-HALL 0.1164	T	B-HALL 16.936	kG	
D	I-READ SET 353.8480	A	I-SET (from PSU) 1189.7800	A	Q3
	B-NMR 0.3170240	T	B-HALL 11.466	kG	
If momentum increased:			I-SET (from PSU) 1635.8200	A	D
☐ HMS cycled? ☐ SHMS cycled?			B-NMR -11.938	kG	

HMS

p: +0.158 θ (TV): 42.230
From GUI Nearest 0.005

SHMS

p: +0.5124 θ (TV): 10.000
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
-0.102 mm	-0.308 mm	
Nomin: -0.09	Nomin: -0.3	
3H07C	X	Y
-0.715 mm	-0.501 mm	
Nomin: -0.68	Nomin: -0.49	

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

Run Number:

16586

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

PS1: 14
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

12:25:48

Stop time (RC GUI):

12:32:12

☒ 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

Comments:

27 μA fade mode 10

Run Number:

16587

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

PS1: 14
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

12:33:29

Stop time (RC GUI):

12:35:12

☒ 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

Comments:

27 μA — Junk — Junk — Junk —

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
pretrig: k

$e\pi n$ evts:

SHMS prescale
pretrig: k

$\Sigma e\pi n$ evts:

COIN pretrig: k

☐ Data ok

☐ Junk

Comments:

see next page

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
pretrig: k

$e\pi n$ evts:

SHMS prescale
pretrig: k

$\Sigma e\pi n$ evts:

COIN pretrig: k

☐ Data ok

☐ Junk

Comments:

see next page

p(e,e'π)n Run Sheet

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

Date: 22/8/28
yy mm dd

Initials: H.V.

Continuation of Configuration:

$Q^2 = 3.85$ $W = 2.62$, $x = 0.3915$

Low E $\theta_{SHMS} = 10.00^\circ$ (R) SKMS left

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

Run Number: 16588	☒ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:38:40 Stop time (RC GUI): 13:39:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 253 k $e-\pi n$ evts: 102	SHMS prescale pretrig: 231 k $\Sigma e-\pi n$ evts: 102	COIN pretrig: 447 k ☒ Data ok ☐ Junk
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$I = 38 \mu A$

$Q = 93.016 mC$
 $\Sigma Q = 93.016 mC$

Run Number: 16589	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:40:10 Stop time (RC GUI): 14:38:57	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 259 k $e-\pi n$ evts: 87	SHMS prescale pretrig: 236 k $\Sigma e-\pi n$ evts: 189	COIN pretrig: 452 k ☒ Data ok ☐ Junk
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$I = 38 \mu A$

$Q = 94.953 mC$
 $\Sigma Q = 187.969 mC$

Run Number: 16590	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:39:45 Stop time (RC GUI): 15:39:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 221 k $e-\pi n$ evts: 87	SHMS prescale pretrig: 201 k $\Sigma e-\pi n$ evts: 276	COIN pretrig: 385 k ☒ Data ok ☐ Junk
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$I = 38 \mu A$

$Q = 80.688 mC$
 $\Sigma Q = 268.657 mC$

Run Number: 16591	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:39:46 Stop time (RC GUI): 16:42	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 363 k $e-\pi n$ evts: 136	SHMS prescale pretrig: 331 k $\Sigma e-\pi n$ evts: 412	COIN pretrig: 633 k ☒ Data ok ☐ Junk
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$37 \mu A$

$Q = \text{[scribbled]} 133.241 mC$
 $\Sigma Q = 401.898 mC$

Run Number: 16592	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:43 Stop time (RC GUI): 17:36	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 243 k $e-\pi n$ evts: 91	SHMS prescale pretrig: 248 k $\Sigma e-\pi n$ evts: 503	COIN pretrig: 476 k ☒ Data ok ☐ Junk
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$37 \mu A$

$Q = 99.437 mC$
 $\Sigma Q = 501.335 mC$

Run Number: 16593	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:37 Stop time (RC GUI): 17:55	☒ 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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$37 \mu A$ ~~Junk~~ HMS 3/4 trigger run ~~Junk~~ $\Sigma Q =$ no beam ~~Junk~~

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

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

Date: 22/08/28
yy mm dd

Initials: Iu.S.

Continuation of Configuration:

$Q^2 = 3.85, W = 2.62, x = 0.3915$
low ϵ , SHMS left (10.000)

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

Run Number: 16594	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>17:57</u> Stop time (RC GUI): <u>18:11</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>2663</u> k $e-\pi n$ evts: <u>29</u>	SHMS prescale pretrig: <u>73</u> k $\Sigma e-\pi n$ evts: <u>532</u>	COIN pretrig: <u>141</u> k ☒ Data ok ☐ Junk
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1.7 37 μ A, HMS $3/4$ trigger run DARR rate ~ 2.3 kHz
 livetime 100% $Q = 29.199$ mC
 $\Sigma Q = 530.534$ mC

Run Number: 16595	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>18:13</u> Stop time (RC GUI): <u>18:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS <u>2660</u> k prescale pretrig: $e-\pi n$ evts: <u>30</u>	SHMS prescale pretrig: <u>73</u> k $\Sigma e-\pi n$ evts: <u>562</u>	COIN pretrig: <u>141</u> k ☒ Data ok ☐ Junk
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1.7 37 μ A, HMS $3/4$ trigger run DARR rate ~ 2.3 kHz
 livetime 100% $Q = 29.479$ mC
 $\Sigma Q = 560.013$ mC

Run Number: 16596	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>18:33</u> Stop time (RC GUI): <u>18:42</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS <u>2660</u> k prescale pretrig: $e-\pi n$ evts: 30	SHMS <u>73</u> k prescale pretrig: $\Sigma e-\pi n$ evts: 562	COIN pretrig: <u>141</u> k ☐ Data ok ☒ Junk
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37 μ A, HMS $3/4$ trigger run, Junk, no beam ~~37~~ Junk

Run Number: 16597	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>18:47</u> Stop time (RC GUI): <u>19:07</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS <u>2168</u> k prescale pretrig: $e-\pi n$ evts: <u>30</u>	SHMS prescale pretrig: <u>60</u> k $\Sigma e-\pi n$ evts: <u>592</u>	COIN pretrig: <u>120</u> k ☒ Data ok ☐ Junk
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1.4 37 μ A, HMS $3/4$ trigger run DARR rate ~ 2.3 kHz
 livetime 100% $Q = 23.943$ mC
 $\Sigma Q = 583.956$ mC

Run Number: 16598	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:09</u> Stop time (RC GUI): <u>19:23</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS <u>2667</u> k prescale pretrig: $e-\pi n$ evts: <u>31</u>	SHMS prescale pretrig: <u>74</u> k $\Sigma e-\pi n$ evts: <u>623</u>	COIN pretrig: <u>142</u> k ☒ Data ok ☐ Junk
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1.7 37 μ A, HMS $3/4$ trigger run DARR rate ~ 2.3 kHz
 livetime 100% $Q = 29.547$ mC
 $\Sigma Q = 613.503$ mC

Run Number: 16599	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:25</u> Stop time (RC GUI): <u>19:44</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS <u>1987</u> k prescale pretrig: $e-\pi n$ evts: <u>19</u>	SHMS prescale pretrig: <u>55</u> k $\Sigma e-\pi n$ evts: <u>642</u>	COIN pretrig: <u>110</u> k ☒ Data ok ☐ Junk
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1.3 37 μ A, HMS $3/4$ trigger run DARR rate ~ 2.3 kHz
 livetime 100% $Q = 22.015$ mC
 $\Sigma Q = 635.518$ mC

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

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

Date: 22/08/28
yy mm dd

Initials: Lu.S

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.3915$

low ϵ , SHMS left

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

Run Number: 16600	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:57</u> Stop time (RC GUI): <u>20:54</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>272</u> k $e-\pi n$ evts: <u>93</u>	SHMS prescale pretrig: <u>247</u> k $\Sigma e-\pi n$ evts: <u>735</u>	COIN pretrig: <u>480</u> k ☒ Data ok ☐ Junk
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38 μ A

$Q = 99.288$ mC
 $\Sigma Q = 734.806$ mC

Run Number: 16601	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>20:55</u> Stop time (RC GUI): <u>21:50</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>220</u> k $e-\pi n$ evts: <u>91</u>	SHMS prescale pretrig: <u>200</u> k $\Sigma e-\pi n$ evts: <u>826</u>	COIN pretrig: <u>390</u> k ☒ Data ok ☐ Junk
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38 μ A

$Q = 80.306$ mC
 $\Sigma Q = 815.112$ mC

Run Number: 16602	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>21:51</u> Stop time (RC GUI): <u>22:49</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>273</u> k $e-\pi n$ evts: <u>100</u>	SHMS prescale pretrig: <u>248</u> k $\Sigma e-\pi n$ evts: <u>926</u>	COIN pretrig: <u>479</u> k ☒ Data ok ☐ Junk
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38 μ A

$Q = 99.608$ mC
 $\Sigma Q = 914.720$ mC

Run Number: 16603	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>22:49</u> Stop time (RC GUI): <u>22:59</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>273</u> k $e-\pi n$ evts: <u>100</u>	SHMS prescale pretrig: <u>248</u> k $\Sigma e-\pi n$ evts: <u>926</u>	COIN pretrig: <u>479</u> k ☐ Data ok ☒ Junk
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38 μ A, no beam - Junk - Junk - ~~2007~~ - Junk

Run Number: 16604	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>23:36</u> Stop time (RC GUI): <u>00:35</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>337</u> k $e-\pi n$ evts: <u>112</u>	SHMS prescale pretrig: <u>302</u> k $\Sigma e-\pi n$ evts: <u>1038</u>	COIN pretrig: <u>577</u> k ☒ Data ok ☐ Junk
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38 μ A

$Q = 121.582$
 $\Sigma Q = 1036.302$

Run Number: 16605	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>00:35</u> Stop time (RC GUI): <u>01:34</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>357</u> k $e-\pi n$ evts: <u>134</u>	SHMS prescale pretrig: <u>325</u> k $\Sigma e-\pi n$ evts: <u>1172</u>	COIN pretrig: <u>624</u> k ☒ Data ok ☐ Junk
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38 μ A

$Q = 150.635$
 $\Sigma Q = 1166.937$

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

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

Date: 22/8/29
yy mm dd

Initials: RLY

Continuation of Configuration:

$Q \approx 385$, $W = 2.62$, $X = 0.3915$

Row 2, SHMS left

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

Run Number: 16606	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:40 Stop time (RC GUI): 02:46	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 364 k $e-\pi n$ evts: 133 mm	SHMS prescale pretrig: 332 k $\Sigma e-\pi n$ evts: mm 1305	COIN pretrig: 634 k ☒ Data ok ☐ Junk
Comments: 38 mA $Q = 133.380$ $\Sigma Q = 1300.717$							

Run Number: 16607	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:46 Stop time (RC GUI): 03:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 292 k $e-\pi n$ evts: 95	SHMS prescale pretrig: 265 k $\Sigma e-\pi n$ evts: 1400	COIN pretrig: 574 k ☒ Data ok ☐ Junk
Comments: 38 mA $Q = 106.687$ $\Sigma Q = 1407.004$							

Run Number: 16608	☐ LH2 10cm ☒ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:57 Stop time (RC GUI): 05:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 46 k $e-\pi n$ evts: 3	SHMS prescale pretrig: 65 k $\Sigma e-\pi n$ evts: 3	COIN pretrig: 53 k ☒ Data ok ☐ Junk
Comments: 40 mA $Q = 133.971$ $\Sigma Q = 133.971$							

Run Number: 16609	☐ LH2 10cm ☒ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:02 Stop time (RC GUI): 05:37	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 26 k $e-\pi n$ evts: 3	SHMS prescale pretrig: 36 k $\Sigma e-\pi n$ evts: 6	COIN pretrig: 29 k ☒ Data ok ☐ Junk
Comments: 40 mA Interlock, enter only $Q = 24.728$ $\Sigma Q = 208.699$							

Run Number: 16610	☐ LH2 10cm ☒ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:46 Stop time (RC GUI): 06:33	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 29 k $e-\pi n$ evts: 7	SHMS prescale pretrig: 41 k $\Sigma e-\pi n$ evts: 13	COIN pretrig: 37 k ☒ Data ok ☐ Junk
Comments: 40 mA $Q = 83.710$ $\Sigma Q = 292.409$							

Run Number: 16611	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:42 Stop time (RC GUI): 07:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 301 k $e-\pi n$ evts: 105	SHMS prescale pretrig: 275 k $\Sigma e-\pi n$ evts: 1512 1505	COIN pretrig: 526 k ☒ Data ok ☐ Junk
Comments: 38 mA $Q = 110.317$ $\Sigma Q = 1517.321$							

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

can be found at lichen.phys.uregina.ca/~huberg/fpi/Date: 22/8/29
yy mm dd

Initials: PLT

Continuation of Configuration:

 $Q^2 = 3.85, W = 2.62, X = 0.39$ low ϵ , SHMS LeftThis sheet is only to be used to
continue a running configuration.

Run Number: 16612	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07:41 Stop time (RC GUI): 9:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 181 k $e-\pi n$ evts: 71	SHMS prescale pretrig: 164 k $\Sigma e-\pi n$ evts: 1583 1576	COIN pretrig: 357 k ☒ Data ok ☐ Junk
Comments: 38 μ A Beam down 8:28 $Q = 66.108$ $\Sigma Q = 1583.429$							

Run Number: 16613	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 9:24 Stop time (RC GUI): 10:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 311 k $e-\pi n$ evts: 116	SHMS prescale pretrig: 285 k $\Sigma e-\pi n$ evts: 1692	COIN pretrig: 546 k ☒ Data ok ☐ Junk
Comments: 38 μ A Beam back 9:23 $Q = 114.530$ $\Sigma Q = 1697.959$							

Run Number: 16614	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:26 Stop time (RC GUI): 11:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 316 k $e-\pi n$ evts: 122	SHMS prescale pretrig: 289 k $\Sigma e-\pi n$ evts: 1814	COIN pretrig: 552 k ☒ Data ok ☐ Junk
Comments: 38 μ A $Q = 116.074$ $\Sigma Q = 1814.033$							

Run Number: 16615	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:26 Stop time (RC GUI): 12:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 324 k $e-\pi n$ evts: 118	SHMS prescale pretrig: 296 k $\Sigma e-\pi n$ evts: 1932	COIN pretrig: 566 k ☒ Data ok ☐ Junk
Comments: 38 μ A $Q = 119.072$ $\Sigma Q = 1933.105$							

Run Number: 16616	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:27 Stop time (RC GUI): 13:27	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 281 k $e-\pi n$ evts: 110	SHMS prescale pretrig: 257 k $\Sigma e-\pi n$ evts: 2042	COIN pretrig: 494 k ☒ Data ok ☐ Junk
Comments: 38 μ A $Q = 103.310$ $\Sigma Q = 2036.415$							

Run Number: 16617	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:28 Stop time (RC GUI): 14:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 313 k $e-\pi n$ evts: 128	SHMS prescale pretrig: 287 k $\Sigma e-\pi n$ evts: 2170	COIN pretrig: 550 k ☒ Data ok ☐ Junk
Comments: 38 μ A $Q = 115.370$ $\Sigma Q = 2151.5791$							

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

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

Date: 22/8/24
yy mm dd

Initials: SFDK

Continuation of Configuration:

$Q^2 = 3.85 \text{ GeV}^2$, $x = 0.39$
low E_γ SHMS 64° (10.00°)

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

492

Run Number: 16618	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 66 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:29 Stop time (RC GUI): 15:29	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 280 k pretrig: 106 k $e-\pi n$ evts: 106	SHMS prescale 257 k pretrig: 280 k $\Sigma e-\pi n$ evts: 2276	COIN pretrig: 280 k ☒ Data ok ☐ Junk
Comments: 38 μ A							

$Q = 103. \text{ mC}$
 $\Sigma Q = 2255 \text{ mC}$

Run Number: 16619	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:29 Stop time (RC GUI): 16:29	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 317 k pretrig: 317 k $e-\pi n$ evts: 118	SHMS prescale 240 k pretrig: 240 k $\Sigma e-\pi n$ evts: 2344	COIN pretrig: 554 k ☒ Data ok ☐ Junk
Comments: 38 μ A							

$Q = 116.5 \text{ mC}$
 $\Sigma Q = 2371.6 \text{ mC}$

Run Number: 16620	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 66 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:29 Stop time (RC GUI): 17:29	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 320 k pretrig: 320 k $e-\pi n$ evts: 120	SHMS prescale 242 k pretrig: 242 k $\Sigma e-\pi n$ evts: 2514	COIN pretrig: 562 k ☒ Data ok ☐ Junk
Comments:							

$Q = 117.2 \text{ mC}$
 $\Sigma Q = 2488.7 \text{ mC}$

Run Number: 16621	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:30 Stop time (RC GUI): 18:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 247 k pretrig: 247 k $e-\pi n$ evts: 103	SHMS prescale 225 k pretrig: 225 k $\Sigma e-\pi n$ evts: 2617	COIN pretrig: 438 k ☒ Data ok ☐ Junk
Comments:							

$Q = 90.2 \text{ mC}$
 $\Sigma Q = 2578.9 \text{ mC}$

Run Number: 16622	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:30 Stop time (RC GUI): 19:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 298 k pretrig: 298 k $e-\pi n$ evts: 107	SHMS prescale 273 k pretrig: 273 k $\Sigma e-\pi n$ evts: 2724	COIN pretrig: 527 k ☒ Data ok ☐ Junk
Comments:							

$Q = 101.9 \text{ mC}$
 $\Sigma Q = 2688.7 \text{ mC}$

Run Number: 16623	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 66 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:31 Stop time (RC GUI): 20:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 326 k pretrig: 326 k $e-\pi n$ evts: 117	SHMS prescale 298 k pretrig: 298 k $\Sigma e-\pi n$ evts: 2841	COIN pretrig: 577 k ☒ Data ok ☐ Junk
Comments:							

$Q = 119.8 \text{ mC}$
 $\Sigma Q = 2808.7 \text{ mC}$

p(e,e'π)n Run Sheet

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

Date: 22/8/29
yy mm dd

Initials: SPK

Continuation of Configuration:

$Q^2 = 3.85$ $W = 2.02$ $x = 0.39$

Low E_γ SHMS Left (10.00)

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

Run Number: 16624	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: 5 Mode10: cer / fadc	Start time (RC GUI): 20:30 Stop time (RC GUI): 21:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 278 k $e-\pi n$ evts: 95	SHMS prescale pretrig: 254 k $\Sigma e-\pi n$ evts: 2936	COIN pretrig: 448 k ☒ Data ok ☐ Junk
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Comments: No beam left ~10 minutes $Q = 102.2 \text{ mC}$
 $\Sigma Q = 2910.8 \text{ mC}$

Run Number: 16625	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: 5 Mode10: cer / fadc	Start time (RC GUI): 21:37 Stop time (RC GUI): 22:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 96 k $e-\pi n$ evts: 35	SHMS prescale pretrig: 87 k $\Sigma e-\pi n$ evts: 2971	COIN pretrig: 175 k ☒ Data ok ☐ Junk
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Comments: $Q = 35.1 \text{ mC}$
 $\Sigma Q = 2945.9 \text{ mC}$

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 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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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 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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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 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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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 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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