

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

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

Date: 22 / 9 / 6
yy mm dd

Initials: SJK

Use a separate sheet for each configuration.

Configuration Name: Part 2

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

Low E_γ SHMS Centre (8.00)

$E_{\text{beam}} = 6.344$ GeV

$I_{\text{beam}} = 12$ μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
	-0.12 mm	-0.29 mm
Nomin:	-0.09	-0.3
3H07C	X	Y
	-0.71 mm	-0.49 mm
Nomin:	-0.68	-0.49

HMS

SHMS

Q1	I-SET (from PSU)	A	I-SET (from PSU)	A	HB
	150.771		1713.36		
Q2	B-HALL	T	B-HALL	kG	Q1
	0.20183		10.811		
Q3	I-SET (from PSU)	A	I-SET (from PSU)	A	Q2
	119.77		1076.51		
	B-HALL	T	B-HALL	kG	
	-0.20329		-7.591		
D	I-SET (from PSU)	A	I-SET (from PSU)	A	Q3
	58.149		1808.2		
	B-HALL	T	B-HALL	kG	
	0.11622		16.941		
D	I-READ	A	I-SET (from PSU)	A	D
	352.883		1189.78		
	B-NMR	T	B-HALL	kG	
	0.3171060		11.482		
If momentum increased:			I-SET (from PSU)	A	D
☒ HMS cycled?			1635.82		
☐ SHMS cycled?			B-NMR	kG	
			-11.950		

Run Number:

16856

- ☐ 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):

09:59

Stop time (RC GUI):

10:59

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

HMS prescale
pretrig: 404 k

$e-\pi n$ evts:

55

SHMS prescale
pretrig: 316 k

$\Sigma e-\pi n$ evts:

3192

COIN pretrig: 222 k

- ☒ Data ok
☐ Junk

Comments:

Previous Run # 16585

12 μA $\rightarrow$ PTrig 1 $\rightarrow$ 800 kHz

$Q = 38.8 \text{ mC}$
 $\Sigma Q = 2112.8 \text{ mC}$

Run Number:

16857

- ☐ 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):

11:00

Stop time (RC GUI):

12:00

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

HMS prescale
pretrig: 347 k

$e-\pi n$ evts:

51

SHMS prescale
pretrig: 270 k

$\Sigma e-\pi n$ evts:

3243

COIN pretrig: 193 k

- ☒ Data ok
☐ Junk

Comments:

12 μA

$Q = 33.5 \text{ mC}$
 $\Sigma Q = 2146.3 \text{ mC}$

Run Number:

16858

- ☐ 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):

12:04

Stop time (RC GUI):

12:41

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

HMS prescale
pretrig: 192 k

$e-\pi n$ evts:

25

SHMS prescale
pretrig: 151 k

$\Sigma e-\pi n$ evts:

3268

COIN pretrig: 109 k

- ☒ Data ok
☐ Junk

Comments:

12 μA

HMS Q_1 interlock ended early

$Q = 19.0 \text{ mC}$
 $\Sigma Q = 2165.3 \text{ mC}$

Run Number:

16859

- ☐ 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):

12:52

Stop time (RC GUI):

13:53

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

HMS prescale
pretrig: 308 k

$e-\pi n$ evts:

50

SHMS prescale
pretrig: 241 k

$\Sigma e-\pi n$ evts:

3318

COIN pretrig: 174 k

- ☒ Data ok
☐ Junk

Comments:

12 μA

$Q = 30.3 \text{ mC}$
 $\Sigma Q = 7195.6 \text{ mC}$

p(e,e' π)n Run Sheet

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

Date: 22/9/6
yy mm dd

Initials: SOK

Continuation of Configuration:

Part 2

$Q = 3.85$, $W = 2.62$, $X = 0.39$

Low E_γ SHMS cent (8.00°)

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

Run Number: 16860	☐ 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): 13:54 Stop time (RC GUI): 15:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 467 k SHMS prescale: 367 k COIN pretrig: 256 k $e-\pi n$ evts: 57 $\Sigma e-\pi n$ evts: 3375	☒ Data ok ☐ Junk
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12 μ A

$Q = 45.2$ mC
 $\Sigma Q = 2240.8$ mC

Run Number: 16861	☐ 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): 15:07 Stop time (RC GUI): 15:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 36 k SHMS prescale: 29 k COIN pretrig: 20 k $e-\pi n$ evts: 7 $\Sigma e-\pi n$ evts: 3382	☒ Data ok ☐ Junk
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12 μ A

$\Sigma Q = 2244.4$ mC; Shook run, HMS Q1 trip (again) $Q = 3.6$ mC
 ~~$\Sigma Q = 2247.4$ mC~~

Run Number: 16862	☐ 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): 15:23 Stop time (RC GUI): 16:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 399 k SHMS prescale: 312 k COIN pretrig: 219 k $e-\pi n$ evts: 47 $\Sigma e-\pi n$ evts: 3429	☒ Data ok ☐ Junk
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12 μ A

$Q = 38.4$ mC
 $\Sigma Q = 2282.708$ mC

Run Number: 16863	☐ 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): 16:24 Stop time (RC GUI): 17:08	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 127 k SHMS prescale: 190 k COIN pretrig: 135 k $e-\pi n$ evts: 47 $\Sigma e-\pi n$ evts: 3476	☒ Data ok ☐ Junk
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12 μ A stopped due to SHMS Q1 interlock

$Q = 23.7$ mC
 $\Sigma Q = 2306.417$ mC

Run Number: 16864	☐ 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): 17:24 Stop time (RC GUI): 18:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 202 k SHMS prescale: 300 k COIN pretrig: 210 k $e-\pi n$ evts: 54 $\Sigma e-\pi n$ evts: 3530	☒ Data ok ☐ Junk
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12 μ A

$Q = 36.9$ mC
 $\Sigma Q = 2343.314$ mC

Run Number: 16865	☐ 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): 18:24 Stop time (RC GUI): 19:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 213 k SHMS prescale: 317 k COIN pretrig: 221 k $e-\pi n$ evts: 52 $\Sigma e-\pi n$ evts: 3582	☒ Data ok ☐ Junk
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12 μ A

$Q = 38.9$ mC
 $\Sigma Q = 2382.258$ mC

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

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Date: 22 / 9 / 6
yy mm dd

Initials: Lu.S.

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.39$
low ε , SKMS center (8.00°)

Part 2

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

Run Number: <u>16866</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>19:26</u> Stop time (RC GUI): <u>20:26</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>223</u> k $e-\pi n$ evts: <u>64</u>	SHMS prescale pretrig: <u>331</u> k $\Sigma e-\pi n$ evts: <u>3646</u>	COIN pretrig: <u>231</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 40.549 \text{ mC}$
 $\Sigma Q = 2422.807 \text{ mC}$

Run Number: <u>16867</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>20:27</u> Stop time (RC GUI): <u>21:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>223</u> k $e-\pi n$ evts: <u>72</u>	SHMS prescale pretrig: <u>333</u> k $\Sigma e-\pi n$ evts: <u>3718</u>	COIN pretrig: <u>229</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 40.714 \text{ mC}$
 $\Sigma Q = 2463.521 \text{ mC}$

Run Number: <u>16868</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>21:28</u> Stop time (RC GUI): <u>22:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>205</u> k $e-\pi n$ evts: <u>67</u>	SHMS prescale pretrig: <u>304</u> k $\Sigma e-\pi n$ evts: <u>3785</u>	COIN pretrig: <u>213</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 37.442 \text{ mC}$
 $\Sigma Q = 2500.963 \text{ mC}$

Run Number: <u>16869</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>22:28</u> Stop time (RC GUI): <u>23:30</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>227</u> k $e-\pi n$ evts: <u>69</u>	SHMS prescale pretrig: <u>339</u> k $\Sigma e-\pi n$ evts: <u>3854</u>	COIN pretrig: <u>234</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 41.529 \text{ mC}$
 $\Sigma Q = 2542.492 \text{ mC}$

Run Number: <u>16870</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>23:31</u> Stop time (RC GUI): <u>00:32</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>225</u> k $e-\pi n$ evts: <u>61</u>	SHMS prescale pretrig: <u>320</u> k $\Sigma e-\pi n$ evts: <u>3915</u>	COIN pretrig: <u>228</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 39.283$
 $\Sigma Q = 2581.775$

Run Number: <u>16871</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>00:32</u> Stop time (RC GUI): <u>01:32</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>225</u> k $e-\pi n$ evts: <u>61</u>	SHMS prescale pretrig: <u>335</u> k $\Sigma e-\pi n$ evts: <u>3976</u>	COIN pretrig: <u>231</u> k ☒ Data ok ☐ Junk
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Comments:

12 μ A

$Q = 40.930$
 $\Sigma Q = 2622.705$

p(e,e'π)n Run Sheet

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

Date: 22 / 9 / 7
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $X = 0.39$
Low ϵ , SHMS Center (8.00°)

Part Deux!

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

Run Number: 16872	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:33 Stop time (RC GUI): 02:36	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 227 k $e-\pi n$ evts: 64	SHMS prescale pretrig: 338 k $\Sigma e-\pi n$ evts: 4040	COIN pretrig: 234 k ☒ Data ok ☐ Junk
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$Q = 41.478$
 $\Sigma Q = 2664.183$

Run Number: 16873	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:37 Stop time (RC GUI): 03:41	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 224 k $e-\pi n$ evts: 46	SHMS prescale pretrig: 333 k $\Sigma e-\pi n$ evts: 4086	COIN pretrig: 233 k ☒ Data ok ☐ Junk
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$Q = 40.975$
 $\Sigma Q = 2705.158$

Run Number: 16874	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:41 Stop time (RC GUI): 04:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 209 k $e-\pi n$ evts: 55	SHMS prescale pretrig: 312 k $\Sigma e-\pi n$ evts: 4141	COIN pretrig: 246 k ☒ Data ok ☐ Junk
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$Q = 38.248$
 $\Sigma Q = 2743.406$

Run Number: 16875	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:40 Stop time (RC GUI): 05:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 217 k $e-\pi n$ evts: 56	SHMS prescale pretrig: 322 k $\Sigma e-\pi n$ evts: 4197	COIN pretrig: 226 k ☒ Data ok ☐ Junk
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$Q = 39.648$
 $\Sigma Q = 2783.054$

Run Number: 16876	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:44 Stop time (RC GUI): 06:43	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 210 k $e-\pi n$ evts: 66	SHMS prescale pretrig: 314 k $\Sigma e-\pi n$ evts: 4263	COIN pretrig: 248 k ☒ Data ok ☐ Junk
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$Q = 38.529$
 $\Sigma Q = 2821.583$

Run Number: 16877	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:43 Stop time (RC GUI): 07:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 140 k $e-\pi n$ evts: 36	SHMS prescale pretrig: 208 k $\Sigma e-\pi n$ evts: 41299	COIN pretrig: 159 k ☒ Data ok ☐ Junk
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$Q = 26.891$
 $\Sigma Q = 2848.474$

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

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

Date: 22 / 9 / 7
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.39$
low z , SHMS Center (800°)

Part Drex!

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

Run Number: <u>16878</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>8</u> PS6: <u>3</u> Mode10: cer / fadc	Start time (RC GUI): <u>07:48</u> Stop time (RC GUI): <u>08:01</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>36</u> k $e-\pi n$ evts: <u>6</u>	SHMS prescale pretrig: <u>54</u> k $\Sigma e-\pi n$ evts: <u>4305</u>	COIN pretrig: <u>39</u> k ☒ Data ok ☐ Junk
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Comments:

$Q = 6.716$
 $\Sigma Q = 2855.190$

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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Comments:

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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Comments:

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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Comments:

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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Comments:

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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Comments:

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

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

Date: 22/09/07
yy mm dd

Initials: jhm

Use a separate sheet for each configuration.

Configuration Name: Part 2

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

Low E, SHMS Left

E_{beam}: 6.373 GeV

I_{beam}: 38 μ A

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
-0.096 mm	-0.33 mm	
Nomin: -0.09	Nomin: -0.3	
3H07C	X	Y
-0.704 mm	-0.498 mm	
Nomin: -0.68	Nomin: -0.49	

HMS

SHMS

Q1	I-SET (from PSU)	A	I-SET (from PSU)	A	HB
	150.771		1713.36		
Q2	B-HALL	T	B-HALL	kG	Q1
	0.20183		10.81		
Q3	I-SET (from PSU)	A	I-SET (from PSU)	A	Q2
	119.77		1076.51		
D	B-HALL	T	B-HALL	kG	Q3
	-0.20329		-7.591		
D	I-SET (from PSU)	A	I-SET (from PSU)	A	D
	58.149		1808.2		
D	B-HALL	T	B-HALL	kG	D
	0.11622		16.941		
D	I-READ	A	I-SET (from PSU)	A	D
	352.97		1184.78		
D	B-NMR	T	B-HALL	kG	D
	0.3121060		11482		
D	If momentum increased:		I-SET (from PSU)	A	D
	☐ HMS cycled?		1635.82		
D	☐ SHMS cycled?		B-NMR	kG	D
			-11.956		

HMS

p: +0 1.158
From GUI

θ (TV): 42.330
Nearest 0.005

SHMS

p: +0 5.127
From GUI

θ (TV): 10.000
Nearest 0.005

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

Previous Run # 16625

Run Number:

16879

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

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

Start time (RC GUI):

08:45

Stop time (RC GUI):

08:46

- ☐ 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:

Junk — // — Junk — // — Junk —

Run Number:

16880

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

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

Start time (RC GUI):

17:22

Stop time (RC GUI):

18:25

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

HMS prescale
pretrig: 284 k

$e-\pi n$ evts:

111

SHMS prescale
pretrig: 256 k

$\Sigma e-\pi n$ evts:

3082

COIN pretrig: 492 k

- ☒ Data ok
☐ Junk

Comments:

38 μ A

$Q=103.489$ mc
 $\Sigma Q=3049.398$ mc

Run Number:

16881

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

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

Start time (RC GUI):

18:26

Stop time (RC GUI):

19:12

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

HMS prescale
pretrig: 146 k

$e-\pi n$ evts:

58

SHMS prescale
pretrig: 132 k

$\Sigma e-\pi n$ evts:

3140

COIN pretrig: 258 k

- ☒ Data ok
☐ Junk

Comments:

38 μ A Stopped due to no beam
many trips, no beam lost 8 min

$Q=54.046$ mc
 $\Sigma Q=3103.444$ mc

Run Number:

16882

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

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

Start time (RC GUI):

19:17

Stop time (RC GUI):

20:18

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

HMS prescale
pretrig: 316 k

$e-\pi n$ evts:

119

SHMS prescale
pretrig: 285 k

$\Sigma e-\pi n$ evts:

3259

COIN pretrig: 549 k

- ☒ Data ok
☐ Junk

Comments:

38 μ A

$Q=114.936$ mc
 $\Sigma Q=3218.380$ mc

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

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

Date: 22 / 09 / 07
yy mm dd

Initials: I.S.

Continuation of Configuration:

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

low Q^2 , SHMS left

Part 2

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

Run Number: 16883	☐ 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): 20:19 Stop time (RC GUI): 21:11	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 204 k $e-\pi n$ evts: 83	SHMS prescale pretrig: 184 k $\Sigma e-\pi n$ evts: 3342	COIN pretrig: 355 k ☒ Data ok ☐ Junk
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Comments: 38 μ A stopped due to no beam
end of run: many trips, no beam last 8 min
 $Q = 74.703$ mC
 $\Sigma Q = 3293.083$ mC

Run Number: 16884	☐ 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): 21:20 Stop time (RC GUI): 22:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 358 k $e-\pi n$ evts: 135	SHMS prescale pretrig: 324 k $\Sigma e-\pi n$ evts: 3477	COIN pretrig: 621 k ☒ Data ok ☐ Junk
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Comments: 38 μ A
 $Q = 130.462$ mC
 $\Sigma Q = 3423.545$ mC

Run Number: 16885	☐ 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): 22:26 Stop time (RC GUI): 23:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 319 k $e-\pi n$ evts: 136	SHMS prescale pretrig: 288 k $\Sigma e-\pi n$ evts: 3613	COIN pretrig: 560 k ☒ Data ok ☐ Junk
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Comments: 38 μ A
 $Q = 115.766$ mC
 $\Sigma Q = 3539.311$ mC

Run Number: 16886	☐ 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): 23:20 Stop time (RC GUI): 00:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 369 k $e-\pi n$ evts: 142	SHMS prescale pretrig: 333 k $\Sigma e-\pi n$ evts: 3755	COIN pretrig: 644 k ☒ Data ok ☐ Junk
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Comments: 38 μ A
 $Q = 134.031$
 $\Sigma Q = 3676.342$

Run Number: 16887	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:26 Stop time (RC GUI): 01:29	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 357 k $e-\pi n$ evts: 126	SHMS prescale pretrig: 317 k $\Sigma e-\pi n$ evts: 3881	COIN pretrig: 616 k ☒ Data ok ☐ Junk
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Comments: 38 μ A
 $Q = 127.510$
 $\Sigma Q = 3800.852$

Run Number: 16888	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:24 Stop time (RC GUI): 02:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 386 k $e-\pi n$ evts: 157	SHMS prescale pretrig: 330 k $\Sigma e-\pi n$ evts: 4012	COIN pretrig: 644 k ☒ Data ok ☐ Junk
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Comments: 38 μ A
 $Q = 132.722$
 $\Sigma Q = 3933.574$

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

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

Date: 22/9/8
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $X = 0.39$
low ϵ , SHMS left (10.00°)

Part 2

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

Run Number: <u>16889</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>6</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>02:32</u> Stop time (RC GUI): <u>03:34</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>335</u> k SHMS prescale: <u>301</u> k COIN pretrig: <u>586</u> k $e-\pi n$ evts: <u>128</u> $\Sigma e-\pi n$ evts: <u>4140</u>	☒ Data ok ☐ Junk
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$Q = 121.246$
 $\Sigma Q = 4054.820$

Run Number: <u>16890</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>6</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>03:35</u> Stop time (RC GUI): <u>04:34</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>334</u> k SHMS prescale: <u>301</u> k COIN pretrig: <u>587</u> k $e-\pi n$ evts: <u>106</u> $\Sigma e-\pi n$ evts: <u>4246</u>	☒ Data ok ☐ Junk
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$Q = 129.096$
 $\Sigma Q = 4175.916$

Run Number: <u>16891</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>6</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>04:34</u> Stop time (RC GUI): <u>05:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>363</u> k SHMS prescale: <u>325</u> k COIN pretrig: <u>634</u> k $e-\pi n$ evts: <u>137</u> $\Sigma e-\pi n$ evts: <u>4383</u>	☒ Data ok ☐ Junk
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$Q = 130.807$
 $\Sigma Q = 4306.723$

Run Number: <u>16892</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>6</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>05:40</u> Stop time (RC GUI): <u>06:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>318</u> k SHMS prescale: <u>285</u> k COIN pretrig: <u>558</u> k $e-\pi n$ evts: <u>101</u> $\Sigma e-\pi n$ evts: <u>4484</u>	☒ Data ok ☐ Junk
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$Q = 114.718$
 $\Sigma Q = 4421.441$

Run Number: <u>16893</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>6</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>06:47</u> Stop time (RC GUI): <u>07:42</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>343</u> k SHMS prescale: <u>306</u> k COIN pretrig: <u>601</u> k $e-\pi n$ evts: <u>120</u> $\Sigma e-\pi n$ evts: <u>4609</u>	☒ Data ok ☐ Junk
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$Q = 123.358$ mC
 $\Sigma Q = 4544.749$ mC

Run Number: <u>16894</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>6</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>07:43</u> Stop time (RC GUI): <u>08:00</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>451</u> k SHMS prescale: <u>405</u> k COIN pretrig: <u>792</u> k $e-\pi n$ evts: <u>157</u> $\Sigma e-\pi n$ evts: <u>4761</u>	☒ Data ok ☐ Junk
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$Q = 162.806$ mC
 $\Sigma Q = 4707.555$ mC

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

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

Date: 22/09/08
yy mm dd

Initials: jm

Continuation of Configuration:

$Q^2=3.85$, $W=2.62$, $x=0.39$
Low- ϵ , SHMS Left (10°)

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

Run Number: <u>16895</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>09:08:14</u> Stop time (RC GUI): <u>09:38:54</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>24</u> k $e-\pi n$ evts: <u>4</u>	SHMS prescale pretrig: <u>34</u> k $\Sigma e-\pi n$ evts: <u>17</u>	COIN pretrig: <u>27</u> k ☒ Data ok ☐ Junk
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SHMS Q1 Vacuum Spike

$Q=68.972$ nC
 $\Sigma Q=361.386$ mC

Run Number: <u>16896</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>11:35:09</u> Stop time (RC GUI): <u>11:48:29</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>64</u> k $e-\pi n$ evts: <u>17</u>	SHMS prescale pretrig: <u>89</u> k $\Sigma e-\pi n$ evts: <u>34</u>	COIN pretrig: <u>70</u> k ☐ Data ok ☒ Junk
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Junk

Very short, few events; checking for spikes

Run Number: <u>16897</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>11:49:42</u> Stop time (RC GUI): <u>13:11</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>64</u> k $e-\pi n$ evts: <u>17</u>	SHMS prescale pretrig: <u>89</u> k $\Sigma e-\pi n$ evts: <u>34</u>	COIN pretrig: <u>70</u> k ☒ Data ok ☐ Junk
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$Q=181.8$ mC
 $\Sigma Q=543.2$ nC

Run Number: <u>16898</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ Home	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: cer / fadc	Start time (RC GUI): <u>13:25</u> Stop time (RC GUI): <u>14:27</u>	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>64</u> k $e-\pi n$ evts: <u>17</u>	SHMS prescale pretrig: <u>89</u> k $\Sigma e-\pi n$ evts: <u>34</u>	COIN pretrig: <u>70</u> k ☐ Data ok ☐ Junk
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BCM Calibration

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

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

Date: 22/09/08
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name:

$Q^2 = 3.85$, $W = 2.0$, $x = 0.39$
Low-E, SHMS Center Part 3

E_{beam} : 6.373 GeV

I_{beam} : 12 μA

HMS

p : +10 1.158 $\theta(\text{TV})$: 42.230
From GUI Nearest 0.005

SHMS

p : +5 5.127 $\theta(\text{TV})$: 8.00
From GUI Nearest 0.005

Collimator:

HMS: Large Sieve ☒

SHMS: Collim Sieve ☒

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
	-0.2 mm	-0.3 mm
Nomin:		
3H07C	X	Y
	-0.7 mm	-0.5 mm
Nomin:		

HMS

SHMS

Q1	I-SET (from PSU) 150.721 B-HALL 0.20183 T	A	I-SET (from PSU) 1713.36 B-HALL 10.811 T	A	HB
Q2	I-SET (from PSU) 119.77 B-HALL -0.20329 T	A	I-SET (from PSU) 1076.51 B-HALL -7.591 T	A	Q1
Q3	I-SET (from PSU) 58.145 B-HALL 0.11622 T	A	I-SET (from PSU) 1808.2 B-HALL 16.941 T	A	Q2
D	I-READ 352.97 B-NMR 0.317100 T	A	I-SET (from PSU) 1181.78 B-HALL 11482 T	A	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?		I-SET (from PSU) 1635.82 B-NMR -1.450 T		D

Run Number:

16899

- ☐ 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):

14:33:52

Stop time (RC GUI):

15:03:55

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

HMS prescale
pretrig: 21 k

$e-\pi n$ evts:
2

SHMS prescale
pretrig: 95 k

$\Sigma e-\pi n$ evts:
19

COIN pretrig: 40 k

- ☒ Data ok
☐ Junk

Comments:

$Q = 60.0 \text{ mC}$
 $\Sigma Q = 338.6$

Run Number:

16900

- ☐ 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):

15:13:08

Stop time (RC GUI):

16:13

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

HMS prescale
pretrig: 305 k

$e-\pi n$ evts:
52

SHMS prescale
pretrig: 239 k

$\Sigma e-\pi n$ evts:
4357

COIN pretrig: 176 k

- ☒ Data ok
☐ Junk

Comments:

Nice.

$Q = 30.2 \text{ mC}$
 $\Sigma Q = 2885.390$

Run Number:

16901

- ☐ 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):

16:13

Stop time (RC GUI):

17:13

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

HMS prescale
pretrig: 400 k

$e-\pi n$ evts:
56

SHMS prescale
pretrig: 316 k

$\Sigma e-\pi n$ evts:
4413

COIN pretrig: 220 k

- ☒ Data ok
☐ Junk

Comments:

$Q = 38.8 \text{ mC}$
 $\Sigma Q = 2923.190$

Run Number:

16902

- ☐ 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):

17:13

Stop time (RC GUI):

18:13

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

HMS prescale
pretrig: 396 k

$e-\pi n$ evts:
49

SHMS prescale
pretrig: 312 k

$\Sigma e-\pi n$ evts:
4462

COIN pretrig: 218 k

- ☐ Data ok
☐ Junk

Comments:

$Q = 38.3$
 $\Sigma Q = 2461.04$

p(e,e'π)n Run Sheet

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

Date: 22/09/08
yy mm dd

Initials: NH

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.62$, $x = 0.39$
Low- E , SHMS center prt. 3

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

Run Number: 16903	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:13 Stop time (RC GUI): 19:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 360 k $e-\pi n$ evts: 39	SHMS prescale pretrig: 284 k $\Sigma e-\pi n$ evts: 334501	COIN pretrig: 201 k ☒ Data ok ☐ Junk
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$Q = 35.2$
 $\Sigma Q = 2996.6$

Run Number: 16904	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:13 Stop time (RC GUI): 20:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 345 k $e-\pi n$ evts: 48	SHMS prescale pretrig: 273 k $\Sigma e-\pi n$ evts: 4549	COIN pretrig: 194 k ☒ Data ok ☐ Junk
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$Q = 33.875$
 $\Sigma Q = 3031.565$

Run Number: 16905	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:13 Stop time (RC GUI): 21:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 302 k $e-\pi n$ evts: 49	SHMS prescale pretrig: 238 k $\Sigma e-\pi n$ evts: 4598	COIN pretrig: 173 k ☒ Data ok ☐ Junk
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$Q = 29.890$
 $\Sigma Q = 3061.455 \text{ mc}$

Run Number: 16906	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:13 Stop time (RC GUI): 22:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 372 k $e-\pi n$ evts: 55	SHMS prescale pretrig: 295 k $\Sigma e-\pi n$ evts: 4653	COIN pretrig: 205 k ☒ Data ok ☐ Junk
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$Q = 36.360$
 $\Sigma Q = 3097.821 \text{ mc}$

Run Number: 16907	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:13 Stop time (RC GUI): 23:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 351 k $e-\pi n$ evts: 50	SHMS prescale pretrig: 277 k $\Sigma e-\pi n$ evts: 4703	COIN pretrig: 196 k ☒ Data ok ☐ Junk
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$Q = 34.309$
 $\Sigma Q = 3132.130$

Run Number: 16908	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: \ PS3: \ PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:14 Stop time (RC GUI): 00:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 420 k $e-\pi n$ evts: 61	SHMS prescale pretrig: 334 k $\Sigma e-\pi n$ evts: 4764	COIN pretrig: 237 k ☒ Data ok ☐ Junk
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$Q = 40.897$
 $\Sigma Q = 3173.027$

p(e,e'π)n Run Sheet

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

Date: 22/9/9
yy mm dd

Initials: RLT

Continuation of Configuration:

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

low_z, SHMS Center

Part 3

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

Run Number: 16909	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:16 Stop time (RC GUI): 01:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 436 k $e-\pi n$ evts: 57	SHMS prescale pretrig: 345 k $\Sigma e-\pi n$ evts: 4821	COIN pretrig: 240 k ☒ Data ok ☐ Junk
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$Q = 42.352$
 $\Sigma Q = 3215.379$

Run Number: 16910	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:22 Stop time (RC GUI): 02:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 421 k $e-\pi n$ evts: 57	SHMS prescale pretrig: 333 k $\Sigma e-\pi n$ evts: 4878	COIN pretrig: 270 k ☒ Data ok ☐ Junk
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$Q = 40.721$
 $\Sigma Q = 3256.100$

Run Number: 16911	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:23 Stop time (RC GUI): 03:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 398 k $e-\pi n$ evts: 57	SHMS prescale pretrig: 315 k $\Sigma e-\pi n$ evts: 4935	COIN pretrig: 218 k ☒ Data ok ☐ Junk
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$Q = 38.620$
 $\Sigma Q = 3294.720$

Run Number: 16912	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:22 Stop time (RC GUI): 04:36	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 493 k $e-\pi n$ evts: 78	SHMS prescale pretrig: 391 k $\Sigma e-\pi n$ evts: 5018	COIN pretrig: 271 k ☒ Data ok ☐ Junk
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$Q = 47.976$
 $\Sigma Q = 3342.696$

Run Number: 16913	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:37 Stop time (RC GUI): 05:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 322 k $e-\pi n$ evts: 35	SHMS prescale pretrig: 255 k $\Sigma e-\pi n$ evts: 5048	COIN pretrig: 176 k ☒ Data ok ☐ Junk
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Optical lock issue, beam down

$Q = 31.295$
 $\Sigma Q = 3373.991$

Run Number: 16914	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 4 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:55 Stop time (RC GUI): 06:53	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 376 k $e-\pi n$ evts: 49	SHMS prescale pretrig: 298 k $\Sigma e-\pi n$ evts: 5097	COIN pretrig: 208 k ☒ Data ok ☐ Junk
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$Q = 36.685$
 $\Sigma Q = 3410.676$

p(e,e' π)n Run Sheet

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

Date: 22/9/9
yy mm dd

Initials: ELT

Continuation of Configuration:

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

low ϵ , SHMS center

Part 3

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

And now my watch has ended... (X)

Run Number:

16915

- ☐ 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):

06:53

Stop time (RC GUI):

07:54

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

HMS prescale pretrig: 381 k

$e-\pi n$ evts:

59

SHMS prescale pretrig: 300 k

$\Sigma e-\pi n$ evts:

5156

COIN pretrig: 211 k

- ☒ Data ok
☐ Junk

Comments:

(X) FINAL RUN!!  $Q = 38.918$
 $\Sigma Q = 3447.52$ (X)

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

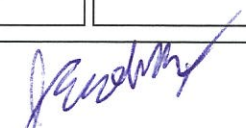
$e-\pi n$ evts:

SHMS prescale pretrig: k

$\Sigma e-\pi n$ evts:

COIN pretrig: k

- ☐ Data ok
☐ Junk

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:

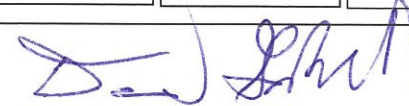
SHMS prescale pretrig: k

$\Sigma e-\pi n$ evts:

COIN pretrig: k

- ☐ Data ok
☐ Junk

Comments:



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:

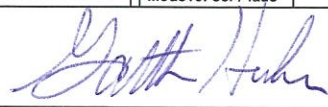
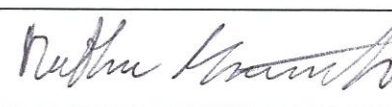
SHMS prescale pretrig: k

$\Sigma e-\pi n$ evts:

COIN pretrig: k

- ☐ Data ok
☐ Junk

Comments:

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:

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: