

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

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

Use a separate sheet for each configuration.

Date: 22/08/04
yy mm dd

Initials: EW

Configuration Name:

$Q^2 = 5.00, W = 2.95, x = 0.39$

high E, SHMS Right

E_{beam} : 10.541 GeV

I_{beam} : 70 μA

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
-0.083 mm	-0.294 mm	
Nomin:	Nomin:	
3H07C	X	Y
-0.724 mm	-0.459 mm	
Nomin:	Nomin:	

HMS

SHMS

Q1	I-SET (from PSU) 484.1230 A B-HALL 0.64350 T	I-SET (from PSU) 2271.1000 A B-HALL -14.414 kG	HB
Q2	I-SET (from PSU) 384.9390 A B-HALL -0.74218 T	I-SET (from PSU) 1415.4500 A B-HALL 10.079 kG	Q1
Q3	I-SET (from PSU) 187.1780 A B-HALL 0.37624 T	I-SET (from PSU) 2369.6700 A B-HALL -22.304 kG	Q2
D	I-READ 1137.7 A B-NMR 1.0173200 T	I-SET (from PSU) 1559.2200 A B-HALL -15.034 kG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) 2143.7700 A B-NMR 15.519 kG	D

Run Number:

15910

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: -9
PS6: -9
Mode10: cer / fadc

Start time (RC GUI):

2:40:41

Stop time (RC GUI):

3:40:50

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

HMS prescale
pretrig: 334 k

SHMS prescale
pretrig: 221 k

COIN pretrig: 324 k

$e-\pi n$ evts:
4375

$\Sigma e-\pi n$ evts:
4375

☒ Data ok
☐ Junk

Comments:

70 μA

$Q = 174.814$

Run Number:

15911

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

03:42:10

Stop time (RC GUI):

03:44:50

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

HMS prescale
pretrig: k

SHMS prescale
pretrig: k

COIN pretrig: k

$e-\pi n$ evts:

$\Sigma e-\pi n$ evts:

☐ Data ok
☐ Junk

Comments:

70 μA

fadc mode 10 Run

Run Number:

15912

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

03:46:00

Stop time (RC GUI):

04:47:59

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

HMS prescale
pretrig: 333 k

SHMS prescale
pretrig: 220 k

COIN pretrig: 319 k

$e-\pi n$ evts:
4307

$\Sigma e-\pi n$ evts:
8682

☒ Data ok
☐ Junk

Comments:

70 μA

$Q = 174.062$
 $\Sigma Q = 348.881$

Run Number:

15913

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

04:49:02

Stop time (RC GUI):

05:50:45

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

HMS prescale
pretrig: 333 k

SHMS prescale
pretrig: 221 k

COIN pretrig: 328 k

$e-\pi n$ evts:
4212

$\Sigma e-\pi n$ evts:
12894

☒ Data ok
☐ Junk

Comments:

70 μA

$Q = 174.365$
 $\Sigma Q = 523.246$

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

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

Date: 22/08/04
yy mm dd

Initials: EW

Continuation of Configuration:

$Q^2 = 5.00$, $w = 2.95$, $x = 0.34$
high E , SHMS Right

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

Run Number: 15914	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:51:21 Stop time (RC GUI): 06:44:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 302 k $e-\pi n$ evts: 3831	SHMS prescale pretrig: 200 k $\Sigma e-\pi n$ evts: 16725	COIN pretrig: 296 k ☒ Data ok ☐ Junk
Comments: 70 mA $Q = 157.834$ $\Sigma Q = 681.080$							

Run Number: 15915	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:46:21 Stop time (RC GUI): 07:12:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 144 k $e-\pi n$ evts: 1854	SHMS prescale pretrig: 96 k $\Sigma e-\pi n$ evts: 18579	COIN pretrig: 143 k ☒ Data ok ☐ Junk
Comments: $Q = 75.560$ $\Sigma Q = 756.64$							

Run Number: 15916	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07:51:21 Stop time (RC GUI): 09:05:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 400 k $e-\pi n$ evts: 5038	SHMS prescale pretrig: 265 k $\Sigma e-\pi n$ evts: 23617	COIN pretrig: 387 k ☒ Data ok ☐ Junk
Comments: $Q = 209.076$ $\Sigma Q = 965.716$							

Run Number: 15917	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 09:06:35 Stop time (RC GUI): 10:05:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 325 k $e-\pi n$ evts: 4106	SHMS prescale pretrig: 216 k $\Sigma e-\pi n$ evts: 27723	COIN pretrig: 320 k ☐ Data ok ☐ Junk
Comments: $Q = 170.003$ $\Sigma Q = 277135.713$							

Run Number: 15918	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:06:10 Stop time (RC GUI): 11:05:27	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 339 k $e-\pi n$ evts: 4312	SHMS prescale pretrig: 225 k $\Sigma e-\pi n$ evts: 32035	COIN pretrig: 330 k ☒ Data ok ☐ Junk
Comments: $Q = 177.409$ $\Sigma Q = 1313.121$							

Run Number: 15919	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:08:32 Stop time (RC GUI): 12:05:29	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 280 k $e-\pi n$ evts: 3484	SHMS prescale pretrig: 186 k $\Sigma e-\pi n$ evts: 35519	COIN pretrig: 275 k ☒ Data ok ☐ Junk
Comments: $Q = 146.744$ $\Sigma Q = 1459.865$							

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

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

Date: 22/08/04
yy mm dd

Initials: VHT

Continuation of Configuration:

$$Q^2 = 5.00, W = 2.95, x = 0.39$$

High ϵ , SHMS right

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

Run Number: 15920	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:06:37 Stop time (RC GUI): 13:05:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 327 k $e-\pi n$ evts: 4174	SHMS prescale pretrig: 218 k $\Sigma e-\pi n$ evts: 39693	COIN pretrig: 323 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

$$Q = 171.659$$

$$\Sigma Q = 1631.524$$

Run Number: 15921	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:06:56 Stop time (RC GUI): 14:05:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 315 k $e-\pi n$ evts: 3928	SHMS prescale pretrig: 209 k $\Sigma e-\pi n$ evts: 43621	COIN pretrig: 304 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

$$Q = 164.714$$

$$\Sigma Q = 1796.238$$

Run Number: 15922	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:05:58 Stop time (RC GUI): 15:11:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 383 k $e-\pi n$ evts: 4843	SHMS prescale pretrig: 255 k $\Sigma e-\pi n$ evts: 48464	COIN pretrig: 370 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

$$\Sigma Q = 1997.086$$

$$Q = 200.848$$

$$200.848$$

Run Number: 15923	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:11:59 Stop time (RC GUI): 15:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 20 k $e-\pi n$ evts: 272	SHMS prescale pretrig: 12 k $\Sigma e-\pi n$ evts: 48736	COIN pretrig: 181 k ☒ Data ok ☐ Junk
----------------------	--	--	--	---	---	---	---

Run ended, Beam OFF due to weather conditions
 $\Sigma Q = 2007.367$ / $Q = 10.281$

Run Number: 15926	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:59 Stop time (RC GUI): 20:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 101 k $e-\pi n$ evts: 70	SHMS prescale pretrig: 84 k $\Sigma e-\pi n$ evts: 70	COIN pretrig: 24 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	--

$$Q = 38.72$$

Run Number: 15927	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: 4 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:25 Stop time (RC GUI): 23:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 307 k $e-\pi n$ evts: 227	SHMS prescale pretrig: 258 k $\Sigma e-\pi n$ evts: 287	COIN pretrig: 50 k ☒ Data ok ☐ Junk
----------------------	--	---	---	---	--	--	--

$$\Sigma Q = 158.0$$

$$Q = 119.30$$

p(e,e'π)n Run Sheet

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

Date: 22/8/5
yy mm dd

Initials: _____

Continuation of Configuration:

$Q^2 = 5.00$, $W = 2.95$, $x = 0.39$

high E, seems right

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

Run Number: 15928	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>4</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 23:26 Stop time (RC GUI): 23:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretig: 151 k e-πn evts: 116	SHMS prescale pretig: 127 k Σ e-πn evts: 413	COIN pretig: 27 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 pretig: _____ k e-πn evts:	SHMS prescale pretig: _____ k Σ e-πn evts:	COIN pretig: _____ 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 pretig: _____ k e-πn evts:	SHMS prescale pretig: _____ k Σ e-πn evts:	COIN pretig: _____ 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 pretig: _____ k e-πn evts:	SHMS prescale pretig: _____ k Σ e-πn evts:	COIN pretig: _____ 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 pretig: _____ k e-πn evts:	SHMS prescale pretig: _____ k Σ e-πn evts:	COIN pretig: _____ 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 pretig: _____ k e-πn evts:	SHMS prescale pretig: _____ k Σ e-πn evts:	COIN pretig: _____ k ☐ Data ok ☐ Junk
-------------	---	--	---	--	--	---	---

Comments:	
-----------	--

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

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

Date: 22 / 8 / 5
yy mm dd

Initials: P.S.

Use a separate sheet for each configuration.

Configuration Name:

$Q^2 = 5.00$ $N = 2.95$ $x = 0.39$
high E, SHMS center

$E_{\text{beam}} = 10.542$ GeV

$I_{\text{beam}} = 40$ 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
<u>-0.11</u> mm		<u>-0.30</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.70</u> mm		<u>-0.49</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>484,1230</u> A B-HALL <u>0,643</u> T	A	I-SET (from PSU) <u>2271,1</u> A B-HALL <u>-14,414</u> kG	A	HB
Q2	I-SET (from PSU) <u>384,930</u> A B-HALL <u>-0.74218</u> T	A	I-SET (from PSU) <u>1415,45</u> A B-HALL <u>10,079</u> kG	A	Q1
Q3	I-SET (from PSU) <u>187,1780</u> A B-HALL <u>0.37624</u> T	A	I-SET (from PSU) <u>2369,67</u> A B-HALL <u>-27,304</u> kG	A	Q2
D	I-READ <u>1137,7</u> A B-NMR <u>1,077</u> T	A	I-SET (from PSU) <u>159,22</u> A B-HALL <u>-15,034</u> kG	A	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?		I-SET (from PSU) <u>2143,77</u> A B-NMR <u>15,519</u> kG	A	D

Run Number:

15929

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

PS1: 8
PS2: -1
PS3: -1
PS4: 4
PS5: 8
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

00:08

Stop time (RC GUI):

01:07

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

HMS prescale
pretrig: 322 k

$e-\pi n$ evts:
238

SHMS prescale
pretrig: 420 k

$\Sigma e-\pi n$ evts:
238

COIN
pretrig: 46 k

- ☒ Data ok
☐ Junk

Comments:

DUMMY 1st RUN

40 μA

$Q^2 = 125.415$
 $\Sigma Q^2 = 125.415$

Run Number:

15930

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

PS1: 8
PS2: -1
PS3: -1
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

01:08

Stop time (RC GUI):

02:09

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

HMS prescale
pretrig: 338 k

$e-\pi n$ evts:
280

SHMS prescale
pretrig: 441 k

$\Sigma e-\pi n$ evts:
518

COIN
pretrig: 47 k

- ☒ Data ok
☐ Junk

Comments:

DUMMY 2nd RUN

40 μA

$Q^2 = 131.632$
 $\Sigma Q^2 = 257.047$

Run Number:

15931

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

PS1: 11
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

02:19

Stop time (RC GUI):

02:27

- ☒ 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:

15932

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

PS1: 10
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

02:27

Stop time (RC GUI):

03:23

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

HMS prescale
pretrig: 365 k

$e-\pi n$ evts:
5299

SHMS prescale
pretrig: 673 k

$\Sigma e-\pi n$ evts:
5299

COIN
pretrig: 178 k

- ☒ Data ok
☐ Junk

Comments:

$Q^2 = 191.411$
 $\Sigma Q^2 = 196.411$

p(e,e' π)n Run Sheet

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

Date: 22 / 08 / 05
yy mm dd

Initials: PS

Continuation of Configuration:

$Q^2=5.00$ $W=2.95$ $x=0.39$
high e , shms center

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

Run Number: 15933	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:24 Stop time (RC GUI): 03:25	☒ 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
----------------------	--	--	---	--	--	--	---

JUNK - BAD PRESCALES

Run Number: 15934	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:26 Stop time (RC GUI): 04:24	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 343 k $e-\pi n$ evts: 5004	SHMS prescale pretrig: 318 k $\Sigma e-\pi n$ evts: 10303	COIN pretrig: 171 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

$Q=179.888$
 $\Sigma Q=371.299$

Run Number: 15935	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:24 Stop time (RC GUI): 05:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 288 k $e-\pi n$ evts: 4168	SHMS prescale pretrig: 257 k $\Sigma e-\pi n$ evts: 14471	COIN pretrig: 140 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

STOPPED DUE TO RF ISSUE. NO BEAM $Q=145.686$ mC
 $\Sigma Q=516.985$ mC

Run Number: 15936	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:45 Stop time (RC GUI): 06:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 349 k $e-\pi n$ evts: 5160	SHMS prescale pretrig: 323 k $\Sigma e-\pi n$ evts: 19631	COIN pretrig: 173 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

$Q=183.190$ mC
 $\Sigma Q=700.175$ mC

Run Number: 15937	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:46 Stop time (RC GUI): 07:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 160 k $e-\pi n$ evts: 2381	SHMS prescale pretrig: 146 k $\Sigma e-\pi n$ evts: 22012	COIN pretrig: 80 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	--

Stopped for RF recovery $Q=83.675$ mC
 $\Sigma Q=783.850$ mC

Run Number: 15938	☐ 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): 13:21 Stop time (RC GUI): 13:21	☐ 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
----------------------	---	--	---	--	--	--	---

— Junk — test for cases

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

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

Date: 22 / 8 / 6
yy mm dd

Initials: P.S.

Continuation of Configuration:

$Q^2 = 5.00$, $x = 2.95$, $x = .39$
high ϵ , SHMS center

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

Run Number: 15939	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 16:38 Stop time (RC GUI): 16:56	☐ 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: was no beam Junk!							

Run Number: 15940	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>60</u> PS4: <u>60</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 17:11 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: Junk!							

Run Number: 15941	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 17:31 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: Junk!							

Run Number: 15943	☒ 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: JUNK							

Run Number: 15944	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 04:06 Stop time (RC GUI): 05:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 166 k $e-\pi n$ evts: 4814	SHMS prescale pretrig: 154 k $\Sigma e-\pi n$ evts: 26.824	COIN pretrig: 173 k ☒ Data ok ☐ Junk
Comments: PRODUCTION! $Q = 171.469$ mc $\Sigma Q = 955.319$ mc							

Run Number: 15945	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 05:10 Stop time (RC GUI): 06:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 113 k $e-\pi n$ evts: 3.194	SHMS prescale pretrig: 105 k $\Sigma e-\pi n$ evts: 30.020	COIN pretrig: 129 k ☒ Data ok ☐ Junk
Comments: PRODUCTION! $Q = 116.948$ mc $\Sigma Q = 1072.267$ mc							

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

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

Date: 22 / 8 / 6
yy mm dd

Initials: P.S.

Continuation of Configuration:

$Q^2 = 5.00$ $W = 2.95$ $x = 0.39$

high E , SHMS center

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

Run Number: 15946	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: -1 PS3: -1 PS4: 7 PS5: 9 PS6: 7 Mode10: cer / fadc	Start time (RC GUI): 06:4 Stop time (RC GUI): 07:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 186 k $e-\pi n$ evts: 5393	SHMS prescale pretrig: 171 k $\Sigma e-\pi n$ evts: 35.413	COIN pretrig: 183 k ☒ Data ok ☐ Junk
----------------------	--	---	--	---	---	---	---

PRODUCTION!

$Q = 191.981 \text{ mC}$
 $\Sigma Q = 1264.248 \text{ mC}$

Run Number: 15947	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: -1 PS3: -1 PS4: 7 PS5: 9 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 07:10 Stop time (RC GUI): 08:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 160 k $e-\pi n$ evts: 4737	SHMS prescale pretrig: 149 k $\Sigma e-\pi n$ evts: 40150	COIN pretrig: 170 k ☒ Data ok ☐ Junk
----------------------	--	---	---	---	---	--	---

PRODUCTION!

$Q = 166.153 \text{ mC}$
 $\Sigma Q = 1430.401 \text{ mC}$

Run Number: 15948	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: -1 PS3: -1 PS4: 7 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 08:10 Stop time (RC GUI): 09:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 144 k $e-\pi n$ evts: 4131	SHMS prescale pretrig: 134 k $\Sigma e-\pi n$ evts: 44281	COIN pretrig: 154 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

@80 μA

$Q = 148.760 \text{ mC}$
 $\Sigma Q = 1579.161 \text{ mC}$

Run Number: 15949	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: -1 PS3: -1 PS4: 7 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 09:10 Stop time (RC GUI): 10:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 183 k $e-\pi n$ evts: 5199	SHMS prescale pretrig: 169 k $\Sigma e-\pi n$ evts: 49480	COIN pretrig: 186 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

down to 75 μA .

$Q = 188.912 \text{ mC}$
 $\Sigma Q = 1768.073 \text{ mC}$

Run Number: 15950	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: -1 PS3: -1 PS4: 7 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:10 Stop time (RC GUI): 11:11	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 193 k $e-\pi n$ evts: 5690	SHMS prescale pretrig: 177 k $\Sigma e-\pi n$ evts: 55770	COIN pretrig: 188 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

~70 μA

$Q = 199.501 \text{ mC}$
 $\Sigma Q = 1967.574 \text{ mC}$

Run Number: 15951	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: -1 PS3: -1 PS4: 7 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:11 Stop time (RC GUI): 12:11	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 202 k $e-\pi n$ evts: 5973	SHMS prescale pretrig: 186 k $\Sigma e-\pi n$ evts: 61143	COIN pretrig: 195 k ☒ Data ok ☐ Junk
----------------------	--	--	---	---	---	--	---

$Q = 209.075 \text{ mC}$
 $\Sigma Q = 2176.649 \text{ mC}$

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

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

Date: 22 / 08 / 06
yy mm dd

Initials: BB

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 5.00$ $W = 2.95$ $x = 0.39$
high E, SHMS left

E_{beam}: 10.5 GeV

I_{beam}: ~70 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
-0.09 mm	-0.3 mm	
Nomin:	Nomin:	
3H07C	X	Y
-0.68 mm	-0.49 mm	
Nomin:	Nomin:	

HMS

SHMS

Q1	I-SET (from PSU) 444.31 A B-HALL	I-SET (from PSU) 2270.35 A B-HALL	HB
Q2	I-SET (from PSU) 384.95 A B-HALL	I-SET (from PSU) 1415.16 A B-HALL	Q1
Q3	I-SET (from PSU) 187.15 A B-HALL	I-SET (from PSU) 2369.0 A B-HALL	Q2
D	I-READ 1138.71 A B-NMR	I-SET (from PSU) 1558.72 A B-HALL	Q3
	I-SET (from PSU) -0.639 T B-HALL	I-SET (from PSU) -14.41 kg B-HALL	
	I-SET (from PSU) -0.740 T B-HALL	I-SET (from PSU) 10.88 kg B-HALL	
	I-SET (from PSU) 0.377 T B-HALL	I-SET (from PSU) -22.303 kg B-HALL	
	I-SET (from PSU) 1.09883 T B-NMR	I-SET (from PSU) -15.034 kg B-NMR	
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) 2143.12 A B-NMR	D
		15.519 kg B-NMR	

Run Number:

15952

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

PS1: 12
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

12:15

Stop time (RC GUI):

12:16

- ☐ 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

- Junk - PS values need changing

Run Number:

15953

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

12:17

Stop time (RC GUI):

12:20

- ☒ 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

fadc mode 10

Run Number:

15954

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

12:21

Stop time (RC GUI):

13:21

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

HMS prescale
pretrig: 192 k
 $e-\pi n$ evts: 3974

SHMS prescale
pretrig: 271 k
 $\Sigma e-\pi n$ evts: 3974

COIN pretrig: 116 k
☒ Data ok
☐ Junk

$Q = 198.650$ mC
 $\Sigma Q = 198.650$ mC

Run Number:

15955

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

13:21

Stop time (RC GUI):

14:21

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

HMS prescale
pretrig: 177 k
 $e-\pi n$ evts: 3672

SHMS prescale
pretrig: 248 k
 $\Sigma e-\pi n$ evts: 7616

COIN pretrig: 108 k
☒ Data ok
☐ Junk

$Q = 182.498$ mC
 $\Sigma Q = 381.148$ mC

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

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

Date: 22 / 08 / 06
yy mm dd

Initials: BB

Continuation of Configuration:

$Q^2=5.00$ $W=2.95$ $x=0.39$

high E, SHMS left

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

Run Number: 15956	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:21 Stop time (RC GUI): 15:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 185 k $e-\pi n$ evts: 3748	SHMS prescale pretrig: 259 k $\Sigma e-\pi n$ evts: 11394	COIN pretrig: 112 k ☒ Data ok ☐ Junk
Comments: $Q = 190.606 \text{ mC}$ $\Sigma Q = 571.754 \text{ mC}$							

Run Number: 15957	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:21 Stop time (RC GUI): 16:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 167 k $e-\pi n$ evts: 3316	SHMS prescale pretrig: 233 k $\Sigma e-\pi n$ evts: 14710	COIN pretrig: 104 k ☒ Data ok ☐ Junk
Comments: $Q = 171.487 \text{ mC}$ $\Sigma Q = 743.251 \text{ mC}$							

Run Number: 15958	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:22:27 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: ROC 6 issue. Junk							

Run Number: 15959	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:34 Stop time (RC GUI): 17:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 150 k $e-\pi n$ evts: 3047	SHMS prescale pretrig: 211 k $\Sigma e-\pi n$ evts: 17757	COIN pretrig: 91 k ☒ Data ok ☐ Junk
Comments: 70 μ A $Q = 154.663 \text{ mC}$ $\Sigma Q = 897.914 \text{ mC}$							

Run Number: 15960	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:21 Stop time (RC GUI): 18:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 146 k $e-\pi n$ evts: 2896	SHMS prescale pretrig: 203 k $\Sigma e-\pi n$ evts: 20653	COIN pretrig: 93 k ☒ Data ok ☐ Junk
Comments: 70 μ A $Q = 149.731 \text{ mC}$ $\Sigma Q = 1047.645 \text{ mC}$							

Run Number: 15961	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 7 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: dummy Junk							

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

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

Date: 22/08/06
yy mm dd

Initials: Iu.S.

Continuation of Configuration:

$Q^2=5.00$, $W=2.95$, $x=0.39$
high E , SHMS left

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

Run Number: 15962	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 18:32 Stop time (RC GUI): 18:35	☒ 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: dummy Junk							

Run Number: 15963	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 19:36 Stop time (RC GUI): 20:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 30 k $e-\pi n$ evts: 97	SHMS prescale pretrig: 30 k $\Sigma e-\pi n$ evts: —	COIN pretrig: 31 k ☒ Data ok ☐ Junk
Comments: dummy, 40 μA							
$Q_{\text{dummy}} = 83.811 \text{ mC}$							

Run Number: 15964	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 20:21 Stop time (RC GUI): 21:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 31 k $e-\pi n$ evts: 114	SHMS prescale pretrig: 31 k $\Sigma e-\pi n$ evts: —	COIN pretrig: 31 k ☒ Data ok ☐ Junk
Comments: dummy, 40 μA							
$Q_{\text{dummy}} = 86.672 \text{ mC}$ $\Sigma Q_{\text{dummy}} = 170.483 \text{ mC}$							

Run Number: 15965	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 21:06 Stop time (RC GUI): 21:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 125	SHMS prescale pretrig: 40 k $\Sigma e-\pi n$ evts: —	COIN pretrig: 37 k ☒ Data ok ☐ Junk
Comments: dummy, 40 μA							
$Q_{\text{dummy}} = 110.927 \text{ mC}$ $\Sigma Q_{\text{dummy}} = 281.41 \text{ mC}$							

Run Number: 15967	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 22:07 Stop time (RC GUI): 22:51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 127 k $e-\pi n$ evts: 2497	SHMS prescale pretrig: 182 k $\Sigma e-\pi n$ evts: 23150	COIN pretrig: 82 k ☒ Data ok ☐ Junk
Comments: 70 μA [15966 is junk], 75-80 μA							
$Q = 131.301 \text{ mC}$ $\Sigma Q = 1178.946 \text{ mC}$							

Run Number: 15968	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 22:52 Stop time (RC GUI): 23:39	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 145 k $e-\pi n$ evts: 2992	SHMS prescale pretrig: 207 k $\Sigma e-\pi n$ evts: 26142	COIN pretrig: 92 k ☒ Data ok ☐ Junk
Comments: 77 μA							
$Q = 149.698 \text{ mC}$ $\Sigma Q = 1328.644 \text{ mC}$							

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

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

Date: 22/08/06
yy mm dd

Initials: Iu.S.

Continuation of Configuration:

$Q^2=5.00, W=2.85, x=0.39$
high ϵ , SHMS left

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

Run Number: 15969	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>23:40</u> Stop time (RC GUI): <u>00:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>161</u> k $e-\pi n$ evts: <u>3363</u>	SHMS prescale pretrig: <u>228</u> k $\Sigma e-\pi n$ evts: <u>29505</u>	COIN pretrig: <u>105</u> k ☒ Data ok ☐ Junk
Comments: 77 μA							
$Q = 166,302 \text{ mC}$ $\Sigma Q = 1494,946 \text{ mC}$							

Run Number: 15970	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>00:40</u> Stop time (RC GUI): <u>01:49</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>201</u> k $e-\pi n$ evts: <u>4156</u>	SHMS prescale pretrig: <u>286</u> k $\Sigma e-\pi n$ evts: <u>33661</u>	COIN pretrig: <u>127</u> k ☒ Data ok ☐ Junk
Comments: $\sim 70 \text{ MA}$							
$Q = 208,091 \text{ mC}$ $\Sigma Q = 1703.017 \text{ mC}$							

Run Number: 15971	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>01:49</u> Stop time (RC GUI): <u>02:49</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>132</u> k $e-\pi n$ evts: <u>2730</u>	SHMS prescale pretrig: <u>187</u> k $\Sigma e-\pi n$ evts: <u>36391</u>	COIN pretrig: <u>86</u> k ☒ Data ok ☐ Junk
Comments: 							
$Q = 136,357 \text{ mC}$ $\Sigma Q = 1839.377 \text{ mC}$							

Run Number: 15972	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>02:40</u> Stop time (RC GUI): <u>03:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>143</u> k $e-\pi n$ evts: <u>2825</u>	SHMS prescale pretrig: <u>202</u> k $\Sigma e-\pi n$ evts: <u>39216</u>	COIN pretrig: <u>96</u> k ☒ Data ok ☐ Junk
Comments: 							
$Q = 147,386 \text{ mC}$ $\Sigma Q = 1986,700 \text{ mC}$							

Run Number: 15973	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>03:42</u> Stop time (RC GUI): 	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>188</u> k $e-\pi n$ evts: <u>3758</u>	SHMS prescale pretrig: <u>268</u> k $\Sigma e-\pi n$ evts: <u>42.974</u>	COIN pretrig: <u>115</u> k ☒ Data ok ☐ Junk
Comments: 							
$Q = 195,040 \text{ mC}$ $\Sigma Q = 2181,800 \text{ mC}$							

Run Number: 15974	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>04:40</u> Stop time (RC GUI): <u>05:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>157</u> k $e-\pi n$ evts: <u>3163</u>	SHMS prescale pretrig: <u>222</u> k $\Sigma e-\pi n$ evts: <u>46.137</u>	COIN pretrig: <u>102</u> k ☒ Data ok ☐ Junk
Comments: 							
$Q = 161,816 \text{ mC}$ $\Sigma Q = 2343.616 \text{ mC}$							

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

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

Date: 22/08/07
yy mm dd

Initials: P.S.

Continuation of Configuration:

$Q^2 = 5.00$ $W = 2.95$ $x = 0.39$
high E. SHMS left

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

Run Number: 15975	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 7 PS5: -9 PS6: -9 Mode10: cer / fadc	Start time (RC GUI): 05:40 Stop time (RC GUI): 06:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 246 k $e-\pi n$ evts: 4976	SHMS prescale pretrig: 350 k $\Sigma e-\pi n$ evts: 51.113	COIN pretrig: 152 k ☒ Data ok ☐ Junk
----------------------	--	---	---	---	---	---	---

$Q = 254.852$ mC
 $\Sigma Q = 2598.268$ 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
-------------	---	--	---	--	--	--	--

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
-------------	---	--	---	--	--	--	--

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
-------------	---	--	---	--	--	--	--