

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

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

Date: 22/07/01
yy mm dd

Initials: GH

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 6.0$ $W = 2.40$ high E
 $\theta_{SHMS} = 16.91^\circ$ (left)

$E_{beam} = 10.549$ GeV $I_{beam} = 60$ μA

HMS

$p = +4.7520$ $\theta(TV) = 19.95$
From GUI Nearest 0.005

LD+

SHMS

$p = +5.5120$ $\theta(TV) = 16.910$
From GUI Nearest 0.005

Collimator:

HMS: Large Sieve ☒
Small Sieve ☐

SHMS: Collim Sieve ☒
Small Sieve ☐

Purpose:

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

Raster: ☒ On ☐ Off
Size: _____

Beam position and angle on target:

3H07A	X	Y
	-0.094 mm	-0.297 mm
Nomin:	-0.09	-0.3
3H07C	X	Y
	-0.655 mm	-0.495 mm
Nomin:	-0.68	-0.49

HMS

SHMS

Q1	I-SET (from PSU) 619.1320	A	I-SET (from PSU) 1846.5100	A	HB
	B-HALL 0.824	T	B-HALL -11.739	kG	
Q2	I-SET (from PSU) 492.4750	A	I-SET (from PSU) 1157.3500	A	Q1
	B-HALL -0.95843	T	B-HALL 8.248	kG	
Q3	I-SET (from PSU) 239.4360	A	I-SET (from PSU) 1943.4800	A	Q2
	B-HALL 0.48267	T	B-HALL -18.304	kG	
D	I-READ 1466.9000	A	I-SET (from PSU) 1279.1200	A	Q3
	B-NMR 1.30097	T	B-HALL -12.403	kG	
If momentum increased:			I-SET (from PSU) 1758.6600	A	D
☒ HMS cycled? ☒ SHMS cycled?			B-NMR 12.737	kG	

Run Number:

15265

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

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

Start time (RC GUI):

16:22

Stop time (RC GUI):

17:22

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

HMS prescale
pretrig: 98 k

$e-\pi n$ evts:

2625

SHMS prescale
pretrig: 116 k

$\Sigma e-\pi n$ evts:

15,734

COIN pretrig: 77 k

☒ Data ok

☐ Junk

Comments:

Continuing from $E\pi^+$ on June 25: 13, 109.

$Q = 102.35 \text{ mC}$

Run Number:

15266

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

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

Start time (RC GUI):

17:23

Stop time (RC GUI):

17:46

- ☐ 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:

Mode-10, not sure it worked.

18,412 evts

Run Number:

15267

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

PS1: 10
PS2: -3
PS3: -3
PS4: 7
PS5: 0
PS6: -3
Mode10: cer / fadc

Start time (RC GUI):

17:29

Stop time (RC GUI):

18:28

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

HMS prescale
pretrig: 82 k

$e-\pi n$ evts:

2252

SHMS prescale
pretrig: 96 k

$\Sigma e-\pi n$ evts:

17,986

COIN pretrig: 69 k

☒ Data ok

☐ Junk

Comments:

$Q = 85.233 \text{ mC}$

Run Number:

15268

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

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

Start time (RC GUI):

18:29

Stop time (RC GUI):

18:30

- ☐ 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:

Mode-10 Junk run. Beam tripped just as starting run.

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

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

Date: 22.07.01
yy mm dd

Initials: GH

Continuation of Configuration:

$Q^2 = 6.0, W = 2.40$ high E
 $\theta_{SKMS} = 16.91^\circ$ (left)

LD+

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

Run Number: 15269	☐ 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): 18:34 Stop time (RC GUI): 18:37	☐ 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:

Mode-10 @ 60nA. Nice stable beam.

Run Number: 15270	☐ 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): 18:38 Stop time (RC GUI): 19:40	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 105 k $e-\pi n$ evts: 2883	SHMS prescale pretrig: 123 k $\Sigma e-\pi n$ evts: 20,869	COIN pretrig: 81 k ☒ Data ok ☐ Junk
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Comments:

$Q = 109.205$

Run Number: 15271	☐ 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): 19:40 Stop time (RC GUI): 20:41	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 111 k $e-\pi n$ evts: 2977	SHMS prescale pretrig: 130 k $\Sigma e-\pi n$ evts: 23,846	COIN pretrig: 82 k ☒ Data ok ☐ Junk
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Comments:

$Q = 115.810$

Run Number: 15272	☐ 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): 20:42 Stop time (RC GUI): 21:42	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 130 k $e-\pi n$ evts: 3455	SHMS prescale pretrig: 153 k $\Sigma e-\pi n$ evts: 27,301	COIN pretrig: 91 k ☒ Data ok ☐ Junk
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Comments:

$Q = 135.859$

Run Number: 15273	☐ 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): 21:43 Stop time (RC GUI): 23:24	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 108 k $e-\pi n$ evts: 2963	SHMS prescale pretrig: 125 k $\Sigma e-\pi n$ evts: 30,269	COIN pretrig: 104 k ☒ Data ok ☐ Junk
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Comments:

$Q = 112.089$ mC

Run Number: 15274	☐ 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): 23:35 Stop time (RC GUI): 01:09	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 83	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☐ Data ok ☐ Junk
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Comments:

Only use events < 68826. Should have stopped at 00:27

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

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

Date: 22/07/02
yy mm dd

Initials: KAA

Continuation of Configuration:

$Q^2=6$, $W=2.40$ high E
 $\theta_{S4MS}=16.9^\circ$ left

LH2

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

Run Number: 15275	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:53:12 Stop time (RC GUI): 01:57:48	☒ 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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50 to 55 μA , fADC Mode 10

Dark π gun π gun will probably want another w/ more stable beam

Run Number: 15276	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:07:27 Stop time (RC GUI): 03:06:50	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 205 k $e-\pi n$ evts: 2431	SHMS prescale pretrig: 210 k $\Sigma e-\pi n$ evts: 2431	COIN pretrig: 57 k ☒ Data ok ☐ Junk
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53 μA

~last 10 min, current now dropped to 50 μA

$Q = 98.862$ mC

$Q_{TOT} = 98.862$ mC

Run Number: 15277	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:07:20 Stop time (RC GUI): 03:39:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 115 k $e-\pi n$ evts: 1391	SHMS prescale pretrig: 117 k $\Sigma e-\pi n$ evts: 3822	COIN pretrig: 31 k ☒ Data ok ☐ Junk
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50 μA

$Q = 55.386$ mC

$Q_T = 154.248$ MC

Run Number: 15278	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:40:24 Stop time (RC GUI): 04:48:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 123 k $e-\pi n$ evts: 1448	SHMS prescale pretrig: 124 k $\Sigma e-\pi n$ evts: 5270	COIN pretrig: 53 k ☒ Data ok ☐ Junk
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45 μA

$Q = 58.742$ mC

$Q_T = 212.990$ mC

Run Number: 15279	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:48:46 Stop time (RC GUI): 05:08:11	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 41 k $e-\pi n$ evts: 466 467	SHMS prescale pretrig: 41 k $\Sigma e-\pi n$ evts: 5737	COIN pretrig: 16 k ☒ Data ok ☐ Junk
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45 μA and 50 μA , stopped run, most of data at 45 μA , 97181 events.

$Q = 19.425$ mC, $Q_T = 232.415$ mC

Run Number: 15280	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:10:44 Stop time (RC GUI): 05:42:29	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 119 k $e-\pi n$ evts: 1437	SHMS prescale pretrig: 121 k $\Sigma e-\pi n$ evts: 7174	COIN pretrig: 31 k ☒ Data ok ☐ Junk
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50 μA stopped run at 270500 = 0 events

Interlock on HMS Q1 $Q_{TOT} = 289.612$ MC

$Q = 57.197$ mC

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

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

Date: 22, 07, 02
yy mm dd

Initials: KAA

Continuation of Configuration:

$Q^2=6$, $W=2.40$, high E

$\theta_{\text{scat}} = 16.91^\circ$ left

LH₂

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

Run Number: 15281	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:04:50 Stop time (RC GUI): 07:08:42	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 258 k $e-\pi n$ evts: 3010	SHMS prescale pretrig: 264 k $\Sigma e-\pi n$ evts: 10184	COIN pretrig: 66 k ☒ Data ok ☐ Junk
Comments: 50 μ A @ interlock recovered from it							
$Q = 124.268 \text{ mC}$ $Q_T = 413.880 \text{ mC}$							

Run Number: 15282	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07:09:27 Stop time (RC GUI): 08:09	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 199 k $e-\pi n$ evts: 2359	SHMS prescale pretrig: 198 k $\Sigma e-\pi n$ evts: 12593	COIN pretrig: 57 k ☒ Data ok ☐ Junk
Comments: 50 μ A							
$Q = 20.93.279$ $Q_T = 507.159$							

Run Number: 15283	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 08:10:13 Stop time (RC GUI): 08:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 97 k $e-\pi n$ evts: 1135	SHMS prescale pretrig: 98 k $\Sigma e-\pi n$ evts: 13,678	COIN pretrig: 39 k ☒ Data ok ☐ Junk
Comments: Beam out for most of time							
$Q = 46.339$ $Q_T = 553.493$							

Run Number: 15284	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:29 Stop time (RC GUI): 10:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 53 k $e-\pi n$ evts: 616	SHMS prescale pretrig: 54 k $\Sigma e-\pi n$ evts: 14299	COIN pretrig: 15 k ☒ Data ok ☐ Junk
Comments:							
$Q_T = 578.923$ $Q = 25.430$							

Run Number: 15285	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:18 Stop time (RC GUI): 13:17	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 138 k $e-\pi n$ evts: 1660	SHMS prescale pretrig: 138 k $\Sigma e-\pi n$ evts: 15954	COIN pretrig: 49 k ☒ Data ok ☐ Junk
Comments:							
$Q_T = 644.89$ $Q = 65.967$							

Run Number: 15286	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:17 Stop time (RC GUI): 14:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 145 k $e-\pi n$ evts: 1707	SHMS prescale pretrig: 143 k $\Sigma e-\pi n$ evts: 17661	COIN pretrig: 49 k ☒ Data ok ☐ Junk
Comments:							
$Q_T = 714.007$ $Q = 69.117$							

p(e,e'π)n Run Sheet

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

Date: 22 / 07 / 02
yy mm dd

Initials: BD

Continuation of Configuration:

$Q = 6$, $W = 290$, high ϵ

$\theta_{sums} = 16.91^\circ$ left

LH2

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

Run Number: 15287	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:17 Stop time (RC GUI): 15:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 2919	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: 20075	COIN pretrig: k ☒ Data ok ☐ Junk
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$Q_T = 813.852$

$Q = 99.845$

Run Number: 15288	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:17 Stop time (RC GUI): 16:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 1570 k $e-\pi n$ evts: 1808	SHMS prescale pretrig: 1588 k $\Sigma e-\pi n$ evts: 21883	COIN pretrig: 508 k ☒ Data ok ☐ Junk
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$Q_T = 889.044$

$Q = 75.192$

Run Number: 15289	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:14 Stop time (RC GUI): 17:11	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 206.3 k $e-\pi n$ evts: 2452	SHMS prescale pretrig: 207.0 k $\Sigma e-\pi n$ evts: 24335	COIN pretrig: 55 k ☒ Data ok ☐ Junk
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$Q_T = 987.962$

$Q = 98.918$

Run Number: 15290	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:12 Stop time (RC GUI): 18:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 252 k $e-\pi n$ evts: 3014	SHMS prescale pretrig: 254 k $\Sigma e-\pi n$ evts: 27349	COIN pretrig: 66 k ☒ Data ok ☐ Junk
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$Q_T = 1109.008$

$Q = 121.046$

Run Number: 15291	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 8 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:19 Stop time (RC GUI): 19:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 253 k $e-\pi n$ evts: 3000	SHMS prescale pretrig: 255 k $\Sigma e-\pi n$ evts: 30349	COIN pretrig: 71 k ☒ Data ok ☐ Junk
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$Q_T = 1230.448$

$Q = 121.482$

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: 22/07/08
yy mm dd

Initials: MS

Use a separate sheet for each configuration.

Configuration Name:

$Q^2 = 6.00, W = 2.40, \text{high E}$
 $\Theta_{\text{SHMS}} = 14.91^\circ$ (CENTER)

$E_{\text{beam}} = 10.549$ GeV

$I_{\text{beam}} = 43$ 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
-0.108 mm	-0.290 mm	
Nomin: -0.09	Nomin: -0.3	
3H07C	X	Y
-0.710 mm	-0.496 mm	
Nomin: -0.68	Nomin: -0.49	

HMS

SHMS

Q1	I-SET (from PSU) 619.1320 B-HALL 0.82330	A	I-SET (from PSU) 1846.5100 B-HALL -11.739	A	HB
Q2	I-SET (from PSU) 492.4750 B-HALL -0.95779	A	I-SET (from PSU) 1157.3500 B-HALL 8.248	A	Q1
Q3	I-SET (from PSU) 239.4360 B-HALL 0.48296	A	I-SET (from PSU) 1943.1800 B-HALL -18.304	A	Q2
D	I-READ set 1466.9000 B-NMR 1.3009700	A	I-SET (from PSU) 1279.1200 B-HALL -12.404	A	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?		I-SET (from PSU) 1758.6600 B-NMR 12737		D

Run Number:

15292

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

PS1: 9
PS2: -1
PS3: -1
PS4: 5
PS5: -1
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

19:45

Stop time (RC GUI):

20:43

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

HMS prescale
pretrig: 256 k

$e-\pi n$ evts:

3786

SHMS prescale
pretrig: 529 k

$\Sigma e-\pi n$ evts:

3786

COIN pretrig: 69 k

- ☒ Data ok
☐ Junk

Comments:

$Q_T = 123.473$

$Q = 123.473$

Run Number:

15293

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

PS1: 9
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

20:44

Stop time (RC GUI):

20:47

- ☐ 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:

Mode-10 Run

Run Number:

15294

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

PS1: 9
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

20:48

Stop time (RC GUI):

21:46

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

HMS prescale
pretrig: 256 k

$e-\pi n$ evts:

3759

SHMS prescale
pretrig: 264 k

$\Sigma e-\pi n$ evts:

7545

COIN pretrig: 69 k

- ☒ Data ok
☐ Junk

Comments:

$Q_T = 246.006$

$Q = 122.533$

Run Number:

15295

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

PS1: 9
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

21:47

Stop time (RC GUI):

22:46

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

HMS prescale
pretrig: 255 k

$e-\pi n$ evts:

3826

SHMS prescale
pretrig: 264 k

$\Sigma e-\pi n$ evts:

11,371

COIN pretrig: 70 k

- ☒ Data ok
☐ Junk

Comments:

$Q_T = 368.63$

$Q = 122.60$

p(e,e'π)n Run Sheet

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

Date: 22/07/02
yy mm dd

Initials: ms

Continuation of Configuration:

$Q^2 = 6$, $W = 2.40$ high E

$\Theta_{SHMS} = 14.91$ (center)

LH2

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

Run Number: 15296	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</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): 22:47 Stop time (RC GUI): 23:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 296 k $e-\pi n$ evts: 4438	SHMS prescale pretrig: 306 k $\Sigma e-\pi n$ evts: 15809	COIN pretrig: 75 k ☒ Data ok ☐ Junk
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$Q_T = 510.866$ mC

$Q = 142.24$ mC

Run Number: 15297	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</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): 23:46 Stop time (RC GUI): 00:46	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 211 k $e-\pi n$ evts: 3036	SHMS prescale pretrig: 217 k $\Sigma e-\pi n$ evts: 18845	COIN pretrig: 63 k ☒ Data ok ☐ Junk
-----------------------------	---	--	---	---	---	--	---

$Q_T = 611.806$ mC

$Q = 100.94$ mC

Run Number: 15298	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</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): 00:46 Stop time (RC GUI): 01:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 37 k $e-\pi n$ evts: 514	SHMS prescale pretrig: 37 k $\Sigma e-\pi n$ evts: 19359	COIN pretrig: 17 k ☒ Data ok ☐ Junk
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ended run to allow MCC to send tuned beam

$Q = 17.266$ mC
 $Q_{TOT} = 629.072$ mC

Run Number: 15299	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</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): 02:01 Stop time (RC GUI): 03:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 288 k $e-\pi n$ evts: 4232	SHMS prescale pretrig: 299 k $\Sigma e-\pi n$ evts: 23591	COIN pretrig: 74 k ☒ Data ok ☐ Junk
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$Q = 138.72$ mC
 $Q_T = 767.824$ mC

Run Number: 15300	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</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): 03:01 Stop time (RC GUI): 04:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 240 k $e-\pi n$ evts: 3518	SHMS prescale pretrig: 249 k $\Sigma e-\pi n$ evts: 27109	COIN pretrig: 69 k ☒ Data ok ☐ Junk
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$Q = 115.6586$ mC
 $Q_T = 883.410$ mC

Run Number: 15301	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</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): 04:04 Stop time (RC GUI): 04:49	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 39 k $e-\pi n$ evts: 554	SHMS prescale pretrig: 39 k $\Sigma e-\pi n$ evts: 27663	COIN pretrig: 28 k ☐ Data ok ☐ Junk
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$Q_T = 901.642$ mC

$Q = 18.232$ mC

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

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

Date: 22 / 07 / 03
yy mm dd

Initials: KAA

Continuation of Configuration:

$Q^2=6$, $W=2.40$, high E
 $\theta_{SHMS} = 14.9^\circ$ (center)

LH₂, Dummy 10cm
and LD₂

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

Run Number: <u>15302</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>04:53</u> Stop time (RC GUI): <u>~05:53</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>237</u> k $e-\pi n$ evts: <u>3477</u>	SHMS prescale pretrig: <u>245</u> k $\Sigma e-\pi n$ evts: <u>31140</u>	COIN pretrig: <u>67</u> k ☒ Data ok ☐ Junk
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LH₂

$Q = 114.101$ mC
 $Q_{TOT} = 1015.743$ mC

Run Number: <u>15303</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>9</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>06:01</u> 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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10cm dummy

Run Number: <u>15304</u>	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>06:42</u> Stop time (RC GUI): <u>07:33</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>127</u> k $e-\pi n$ evts: <u>1136</u>	SHMS prescale pretrig: <u>150</u> k $\Sigma e-\pi n$ evts: <u>1136</u>	COIN pretrig: <u>48</u> k ☒ Data ok ☐ Junk
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LD₂

$Q = 34.227$ mC
 $Q_{TOT} = 34.227$ mC

Run Number: <u>15305</u>	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>07:50</u> 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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LD₂

Bad beam

$Q_{TOT} = 45.316$ mC

Run Number: <u>15306</u>	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>11:40</u> Stop time (RC GUI):	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts: <u>3637</u>	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts: <u>4773</u>	COIN pretrig: ____ k ☒ Data ok ☐ Junk
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$Q_{TOT} = 153.602$

2225 line down prior
~366 pi-n bar run prior
(15305)

Run Number: <u>15307</u>	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>12:40</u> Stop time (RC GUI): <u>12:45</u>	☐ 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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3-min Run, MODE 10

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

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

Date: 22/07/03
yy mm dd

Initials: SAS

Continuation of Configuration:

$Q^2 = 6$, $W = 2.40$, high E
 $\theta_{\text{SMA5}} = 14.91^\circ$ (center)

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

Run Number: 15308	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>12:45</u> Stop time (RC GUI): <u>1:46</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k <u>1514</u> $e-\pi n$ evts:	SHMS prescale pretrig: k <u>6287</u> $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
Comments: LD2 Production conf.							
$Q_{\text{TOT}} = 199.187 \text{ mC}$							

Run Number: 15309	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>1:46</u> Stop time (RC GUI): <u>3:14</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k <u>2039</u> $e-\pi n$ evts:	SHMS prescale pretrig: k <u>8326</u> $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
Comments: 							
$Q_{\text{TOT}} = 261.156 \text{ mC}$							

Run Number: 15310	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:14</u> Stop time (RC GUI): <u>3:34</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>10</u> k <u>171</u> $e-\pi n$ evts:	SHMS prescale pretrig: <u>11</u> k <u>8497</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>14</u> k ☒ Data ok ☐ Junk
Comments: 							
$Q_{\text{TOT}} = 266.413$							

Run Number: 15311	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>15:42</u> Stop time (RC GUI): <u>16:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>63</u> k <u>1029</u> $e-\pi n$ evts:	SHMS prescale pretrig: <u>69</u> k <u>9526</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>50</u> k ☒ Data ok ☐ Junk
Comments: No beam for the last 10 mins							
$Q_{\text{TOT}} = 298.524 \text{ mC}$							

Run Number: 15312	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>16:52</u> Stop time (RC GUI): 	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k 	SHMS prescale pretrig: k 	COIN pretrig: k ☐ Data ok ☒ Junk
Comments: 							

Run Number: 15313	☐ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>17:54</u> Stop time (RC GUI): <u>18:54</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>102</u> k <u>1772</u> $e-\pi n$ evts:	SHMS prescale pretrig: <u>113</u> k <u>11298</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>59</u> k ☒ Data ok ☐ Junk
Comments: 							
$Q_{\text{TOT}} = 351.42 \text{ mC}$							

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

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

Date: 02/07/03
yy mm dd

Initials: P.S.

Continuation of Configuration:

$Q^2 = 6$ $W = 2,40$, high E
 $\theta_{\text{sums}} = 14,91^\circ$ (center)

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

Run Number: 15314	☐ 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): 18:58 Stop time (RC GUI): 19:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 140 k $e-\pi n$ evts: 2496	SHMS prescale pretrig: 158 k $\Sigma e-\pi n$ evts: 13794	COIN pretrig: 69 k ☒ Data ok ☐ Junk
Comments: $Q_{\text{total}} = 424,829 \text{ mC}$							

Run Number: 15315	☐ 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): 19:58 Stop time (RC GUI): 20:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 178 k $e-\pi n$ evts: 3077	SHMS prescale pretrig: 203 k $\Sigma e-\pi n$ evts: 16,871	COIN pretrig: 81 k ☒ Data ok ☐ Junk
Comments: $Q = 93.35$ $Q_{\text{tot}} = 518,19 \text{ mC}$							

Run Number: 15316	☐ 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): 20:59 Stop time (RC GUI): 22:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 214 k $e-\pi n$ evts: 3805	SHMS prescale pretrig: 248 k $\Sigma e-\pi n$ evts: 20676	COIN pretrig: 94 k ☒ Data ok ☐ Junk
Comments: $Q = 113,028$ $Q_{\text{tot}} = 631,215$							

Run Number: 15317	☐ 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): 22:00 Stop time (RC GUI): 23:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 238 k $e-\pi n$ evts: 4079	SHMS prescale pretrig: 277 k $\Sigma e-\pi n$ evts: 24755	COIN pretrig: 107 k ☒ Data ok ☐ Junk
Comments: $Q = 125,756 \text{ mC}$ $Q_{\text{tot}} = 756,951 \text{ mC}$							

Run Number: 15318	☐ 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): 23:00 Stop time (RC GUI): 00:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 137 k $e-\pi n$ evts: 4057	SHMS prescale pretrig: 215 k $\Sigma e-\pi n$ evts: 29178	COIN pretrig: 101 k ☐ Data ok ☐ Junk
Comments: $Q = 125.067$ $Q_{\text{tot}} = 882,038 \text{ mC}$							

Run Number: 15319	☐ 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): 01:00 Stop time (RC GUI): 01:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 95 k $e-\pi n$ evts: 1727	SHMS prescale pretrig: 110 k $\Sigma e-\pi n$ evts: 30905	COIN pretrig: 43 k ☐ Data ok ☐ Junk
Comments: $Q = 49,863 \text{ mC}$ $Q_{\text{tot}} = 931,901 \text{ mC}$							

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

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

Date: 22 10 104
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2=6.00$, $W=2.40$, $X=0.55$, high E
SHMS right

E_{beam} : 10.56 GeV

I_{beam} : 43 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
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) 619.132 A B-HALL 0.82 T	I-SET (from PSU) 1846.5 A B-HALL -11.742 kg	HB
Q2	I-SET (from PSU) 492.475 A B-HALL -0.96 T	I-SET (from PSU) 1157.35 A B-HALL 8.246 kg	Q1
Q3	I-SET (from PSU) 239.436 A B-HALL 0.48 T	I-SET (from PSU) 1943.98 A B-HALL -18.306 kg	Q2
D	I-READ 1466.90 A B-NMR 1.300930 T	I-SET (from PSU) 1279.12 A B-HALL -12.412 kg	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) 1758.66 A B-NMR 12.744 kg	D

Run Number:

15320

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

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

Start time (RC GUI):

00:43

Stop time (RC GUI):

01:23

☒ Settings Verified?

☒ HV OK?

☐ 50k OK?

HMS prescale
pretrig: 0.418 k

$e-\pi n$ evts:
122
114

SHMS prescale
pretrig: 14.076 k

$\Sigma e-\pi n$ evts:
732
114

COIN pretrig: 0.012 k

☒ Data ok

☐ Junk

Comments:

410 μA Dummy

124 $Q = 76.516 \text{ mC}$
 $Q_T = 76.516 \text{ mC}$

Run Number:

15321

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

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

Start time (RC GUI):

01:36

Stop time (RC GUI):

1:52

☒ Settings Verified?

☒ HV OK?

☐ 50k OK?

HMS prescale
pretrig: 33 k

$e-\pi n$ evts:
745873

SHMS prescale
pretrig: 78 k

$\Sigma e-\pi n$ evts:
873
745

COIN pretrig: 28 k

☒ Data ok

☐ Junk

Comments:

outlined core may be off ended w target issue. Dave M. says we should be fine $Q = 30.517 \text{ mC}$

Run Number:

15322

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

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

Start time (RC GUI):

2:56

Stop time (RC GUI):

3:47

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 110 k

$e-\pi n$ evts:
3009

SHMS prescale
pretrig: 263 k

$\Sigma e-\pi n$ evts:
3882

COIN pretrig: 66 k

☒ Data ok

☐ Junk

Comments:

$Q = 102.33 \text{ mC}$
 $Q_T = 132.850$

Run Number:

15323

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

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

Start time (RC GUI):

3:55

Stop time (RC GUI):

4:55

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 123 k

$e-\pi n$ evts:
3220

SHMS prescale
pretrig: 195 k

$\Sigma e-\pi n$ evts:
7102

COIN pretrig: 76 k

☒ Data ok

☐ Junk

Comments:

$Q = 114.625 \text{ mC}$
 $Q_T = 247.475 \text{ mC}$

p(e,e'π)n Run Sheet

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

Date: 12/07/04
yy mm dd

Initials: KAA

Continuation of Configuration:

$Q^2 = 6$, $W = 2.40$, $X = 0.55$, high E
SHMS right

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

Run Number: <u>15324</u>	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>04:55</u> Stop time (RC GUI): <u>05:55</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>115</u> k $e-\pi n$ evts: <u>2985</u>	SHMS prescale pretrig: <u>275</u> k $\Sigma e-\pi n$ evts: <u>10087</u>	COIN pretrig: <u>73</u> k ☒ Data ok ☐ Junk
Comments: $Q = 106.978 \text{ mC}$ $Q_T = 354.453 \text{ mC}$							

Run Number: <u>15325</u>	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>05:55</u> 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: 5 minute junk run w/ th no beam.							

Run Number: <u>15326</u>	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>06:26</u> Stop time (RC GUI): <u>07:25</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>86</u> k $e-\pi n$ evts: <u>2205</u>	SHMS prescale pretrig: <u>205</u> k $\Sigma e-\pi n$ evts: <u>12292</u>	COIN pretrig: <u>63</u> k ☒ Data ok ☐ Junk
Comments: $Q = 79.997 \text{ mC}$ $Q_T = 434.450 \text{ mC}$							

Run Number: <u>15327</u>	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>07:26</u> Stop time (RC GUI): <u>07:33</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: <u>184</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☒ Junk
Comments: Vacuum issues with MLC, no beam							

Run Number: <u>15328</u>	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>08:22:05</u> Stop time (RC GUI): <u>09:23:09</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>239</u> k $e-\pi n$ evts: <u>3192</u>	SHMS prescale pretrig: <u>295</u> k $\Sigma e-\pi n$ evts: <u>15484</u>	COIN pretrig: <u>76</u> k ☒ Data ok ☐ Junk
Comments: $Q = 114.860 \text{ mC}$ $\Sigma Q = 549.30 \text{ mC}$							

Run Number: <u>15329</u>	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>09:23:48</u> Stop time (RC GUI): <u>10:22:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>205</u> k $e-\pi n$ evts: <u>2702</u>	SHMS prescale pretrig: <u>253</u> k $\Sigma e-\pi n$ evts: <u>18186</u>	COIN pretrig: <u>69</u> k ☒ Data ok ☐ Junk
Comments: $Q = 98.659 \text{ mC}$ $\Sigma Q = 647.969 \text{ mC}$							

p(e,e'π)n Run Sheet

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

Date: 2007.04
yy mm dd

Initials: jm

Continuation of Configuration:

$Q^2 = 6.00$, $W = 2.40$, $x = 0.55$, $N_{H\pi E}$
SHMS Right ($\Theta = 12.915$)

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

Run Number: 15331	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:24:42 Stop time (RC GUI): 10:30:51	☒ 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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(15330 junk) ADC Mode 10 run

Run Number: 15332	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:31:34 Stop time (RC GUI): 11:31:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 210 k $e-\pi n$ evts: 2749	SHMS prescale pretrig: 258 k $\Sigma e-\pi n$ evts: 20935	COIN pretrig: 70 k ☒ Data ok ☐ Junk
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$Q = 300.752 \text{ mC}$
 $\Sigma Q = 748.721 \text{ mC}$

Run Number: 15333	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:32:20 Stop time (RC GUI): 12:44:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 264 k $e-\pi n$ evts: 3488	SHMS prescale pretrig: 325 k $\Sigma e-\pi n$ evts: 24423	COIN pretrig: 86 k ☒ Data ok ☐ Junk
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$Q = 126.810 \text{ mC}$
 $\Sigma Q = 875.531 \text{ mC}$

Run Number: 15334	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:50:45 Stop time (RC GUI): 13:10:41	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 51 k $e-\pi n$ evts: 701	SHMS prescale pretrig: 62 k $\Sigma e-\pi n$ evts: 25124	COIN pretrig: 20 k ☒ Data ok ☐ Junk
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$Q = 24.335 \text{ mC}$
 $\Sigma Q = 899.874 \text{ mC}$

Run Number: 15335	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:45:31 Stop time (RC GUI): 16:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 244 k $e-\pi n$ evts: 3327	SHMS prescale pretrig: 301 k $\Sigma e-\pi n$ evts: 28,451	COIN pretrig: 76 k ☒ Data ok ☐ Junk
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$Q = 117.896 \text{ mC}$
 $\Sigma Q = 1017.27$

Run Number: 15336	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:46 Stop time (RC GUI): 17:27	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 156 k $e-\pi n$ evts: 2153	SHMS prescale pretrig: 193 k $\Sigma e-\pi n$ evts: 30604	COIN pretrig: 51 k ☒ Data ok ☐ Junk
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$Q = 75.181 \text{ mC}$
 $\Sigma Q = 1092.45 \text{ mC}$