

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

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

Date: 22/09/11
yy mm dd

Initials: N.S.

Use a separate sheet for each configuration.

Configuration Name:

$Q^2=3.85$, $W=3.07$, $x=0.31$

low z , SHMS right

E_{beam} : 8.494 GeV

I_{beam} : 40 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2mm x 2mm

Beam position and angle on target:

3H07A	X	Y
<u>-0.097</u> mm		<u>-0.291</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.709</u> mm		<u>-0.491</u> mm
Nomin:		Nomin:

HMS

p : ± 1.8820
From GUI

$\theta(\text{TV})$: ~~5.500~~ 28.420
Nearest 0.005

SHMS

p : ± 6.5380
From GUI

$\theta(\text{TV})$: 5.500
Nearest 0.005

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

HMS

SHMS

Q1	I-SET (from PSU) <u>245.1210</u> B-HALL <u>0.32549</u>	A <u>1376.36</u> B-HALL <u>-13.952</u> kG	HB
Q2	I-SET (from PSU) <u>194.8220</u> B-HALL <u>-0.35549</u>	A <u>2705.8300</u> B-HALL <u>9.796</u> kG	Q1
Q3	I-SET (from PSU) <u>94.6685</u> B-HALL <u>0.19703</u>	A <u>2305.83</u> B-HALL <u>21.730</u> kG	Q2
D	I-READ <u>574.68</u> B-NMR <u>0.51523</u>	I-SET (from PSU) <u>1517.22</u> B-HALL <u>-14.620</u> kG	Q3
	If momentum increased: ☒ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>2086.92</u> B-NMR <u>15.110</u> kG	D

Run Number:

16098

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

PS1: 12
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: 0
Mode10: per / fadc

Start time (RC GUI):

03:49:48

Stop time (RC GUI):

04:12:08

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

HMS prescale
pretrig: 83 k

$e-\pi n$ evts:
38

SHMS prescale
pretrig: 74 k

$\Sigma e-\pi n$ evts:
38

COIN
pretrig: 26 k

- ☒ Data ok
☐ Junk

Comments:

40 MA

$Q = 44.130$ mC
 $\Sigma Q = 44.130$

Run Number:

16099

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

PS1: 12
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: per / fadc

Start time (RC GUI):

04:12:50

Stop time (RC GUI):

04:48:49

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

HMS prescale
pretrig: 141 k

$e-\pi n$ evts:
47

SHMS prescale
pretrig: 127 k

$\Sigma e-\pi n$ evts:
85

COIN
pretrig: 44 k

- ☒ Data ok
☐ Junk

Comments:

40 MA

$Q = 75.651$ mC
 $\Sigma Q = 119.781$

Run Number:

16100

- ☒ 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: per / fadc

Start time (RC GUI):

04:57:17

Stop time (RC GUI):

05:52:35

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

HMS prescale
pretrig: 247 k

$e-\pi n$ evts:
593

SHMS prescale
pretrig: 153 k

$\Sigma e-\pi n$ evts:
593

COIN
pretrig: 286 k

- ☒ Data ok
☐ Junk

Comments:

35 MA

$Q = 82.621$ mC
 $\Sigma Q = 82.621$

Run Number:

16101

- ☒ 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: per / fadc

Start time (RC GUI):

05:53:44

Stop time (RC GUI):

06:33:22

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

HMS prescale
pretrig: 141 k

$e-\pi n$ evts:
411

SHMS prescale
pretrig: 99 k

$\Sigma e-\pi n$ evts:
1094

COIN
pretrig: 186 k

- ☒ Data ok
☐ Junk

Comments:

35 MA

$Q = 53.422$ mC
 $\Sigma Q = 136.043$

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

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

Date: 22/08/12
yy mm dd

Initials: M.S.

Continuation of Configuration:

$Q^2=3.85$, $w=3.07$, $x=0.31$

low E , SHMS right

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

Run Number: <u>16102</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: <u>cer</u> / fadc	Start time (RC GUI): <u>00:31:40</u> Stop time (RC GUI): <u>01:04:39</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>89</u> k SHMS prescale <u>65</u> k COIN pretrig: <u>135</u> k $e-\pi n$ evts: <u>265</u> $\Sigma e-\pi n$ evts: <u>1269</u>	☒ Data ok ☐ Junk
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38 MA

$Q = 34.334$ mC
 $\Sigma Q = 170.377$

Run Number: <u>16103</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: <u>cer</u> / fadc	Start time (RC GUI): <u>01:36:53</u> Stop time (RC GUI): <u>01:46:17</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>17</u> k SHMS prescale <u>13</u> k COIN pretrig: <u>28</u> k $e-\pi n$ evts: <u>45</u> $\Sigma e-\pi n$ evts: <u>1314</u>	☒ Data ok ☐ Junk
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38 MA

$Q = 6.648$ mC
 $\Sigma Q = 177.025$

Run Number: <u>16104</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: <u>cer</u> / fadc	Start time (RC GUI): <u>01:48:24</u> Stop time (RC GUI): <u>02:30:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>133</u> k SHMS prescale <u>97</u> k COIN pretrig: <u>195</u> k $e-\pi n$ evts: <u>368</u> $\Sigma e-\pi n$ evts: <u>1682</u>	☒ Data ok ☐ Junk
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38 MA

$Q = 51.468$ mC
 $\Sigma Q = 228.493$

Run Number: <u>16105</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: <u>cer</u> / fadc	Start time (RC GUI): <u>03:02:46</u> Stop time (RC GUI): <u>03:42:58</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>161</u> k SHMS prescale <u>117</u> k COIN pretrig: <u>231</u> k $e-\pi n$ evts: <u>419</u> $\Sigma e-\pi n$ evts: <u>2101</u>	☒ Data ok ☐ Junk
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38 MA

$Q = 61.923$ mC
 $\Sigma Q = 290.416$

Run Number: <u>16106</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: <u>cer</u> / fadc	Start time (RC GUI): <u>03:43:47</u> Stop time (RC GUI): <u>04:15:33</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>170</u> k SHMS prescale <u>125</u> k COIN pretrig: <u>240</u> k $e-\pi n$ evts: <u>411</u> $\Sigma e-\pi n$ evts: <u>2512</u>	☒ Data ok ☐ Junk
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38 MA

$Q = 65.693$ mC
 $\Sigma Q = 356.109$

Run Number: <u>16107</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: <u>cer</u> / fadc	Start time (RC GUI): <u>04:16:12</u> Stop time (RC GUI): <u>5:16:33</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>255</u> k SHMS prescale <u>188</u> k COIN pretrig: <u>368</u> k $e-\pi n$ evts: <u>680</u> $\Sigma e-\pi n$ evts: <u>3192</u>	☒ Data ok ☐ Junk
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38 MA

$Q = 99.809$ mC
 $\Sigma Q = 454.918$

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

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

Date: 22 / 08 / 12
yy mm dd

Initials: N.S.

Continuation of Configuration:

$Q^2 = 3.85$, $w = 3.07$, $x = 0.31$

low ϵ , SHMS right

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

Run Number: 16108	☒ 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): 05:17:43 Stop time (RC GUI): 05:21:29	☒ 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: 38 MA Fadc mode 10							

Run Number: 16109	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: 9 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 05:22:50 Stop time (RC GUI): 05:43:08	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 3421 k pretrig: $e-\pi n$ evts: 270	SHMS prescale 76 k pretrig: $\Sigma e-\pi n$ evts: 3462	COIN pretrig: 147 k ☒ Data ok ☐ Junk
Comments: 38 MA 3/4 Trigger Run $Q = 40.180 \text{ mC}$ $\Sigma Q = 495.098$							

Run Number: 16110	☒ 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): 05:46:20 Stop time (RC GUI): 06:46:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 277 k pretrig: $e-\pi n$ evts: 772	SHMS prescale 204 k pretrig: $\Sigma e-\pi n$ evts: 4234	COIN pretrig: 397 k ☒ Data ok ☐ Junk
Comments: 38 MA $Q = 107.279 \text{ mC}$ $\Sigma Q = 602.377$							

Run Number: 16111	☒ 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): 06:47:11 Stop time (RC GUI): 07:47:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 307 k pretrig: $e-\pi n$ evts: 889	SHMS prescale 228 k pretrig: $\Sigma e-\pi n$ evts: 5123	COIN pretrig: 439 k ☒ Data ok ☐ Junk
Comments: 38 MA $Q = 119.3 \text{ mC}$ $\Sigma Q = 721.6 \text{ mC}$							

Run Number: 16112	☒ 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): 7:47:56 Stop time (RC GUI): 9:04:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 412 k pretrig: $e-\pi n$ evts: 1101	SHMS prescale 304 k pretrig: $\Sigma e-\pi n$ evts: 6224	COIN pretrig: 589 k ☒ Data ok ☐ Junk
Comments: 38 MA $Q = 159.911 \text{ mC}$ $\Sigma Q = 881.5$							

Run Number: 16114	☒ 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): 11:53:28 Stop time (RC GUI): 12:08:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 14 k pretrig: $e-\pi n$ evts: 52	SHMS prescale 9 k pretrig: $\Sigma e-\pi n$ evts: 6276	COIN pretrig: 20 k ☒ Data ok ☒ Junk
Comments: Beam trippy at start of this run, unstable, current varying $\Sigma Q = 0.20 \text{ mC}$ $Q = 0.27$ very little good beam							

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

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

Date: 8 / 12 / 22
yy mm dd

Initials: AY

Continuation of Configuration:

$Q^2 = 3.85$, $W = 3.07$, $x = 0.31$
Low E , SHMS right

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

Run Number: 16115	☒ 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): 13:28 Stop time (RC GUI): 14:33:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 825 k $e-\pi n$ evts: 655	SHMS prescale pretrig: 171 k $\Sigma e-\pi n$ evts: 6881	COIN pretrig: 333 k ☒ Data ok ☐ Junk
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$Q = 91.15$ mC
 $\Sigma Q = 977.92$

Run Number: 16116	☒ 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): 14:35:58 Stop time (RC GUI): 14:41:06	☐ 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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MCC increased current to 80 mA during this run borderline junk

Run Number: 16117	☒ 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): 15:30:36 Stop time (RC GUI): 15:39:26	☒ 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: 16118	☒ 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): 15:55 Stop time (RC GUI): 16:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 92 k $e-\pi n$ evts: 258	SHMS prescale pretrig: 68 k $\Sigma e-\pi n$ evts: 7189	COIN pretrig: 138 k ☒ Data ok ☐ Junk
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$Q = 35.67$
 $\Sigma Q = 1013.59$

Ended run
beam will be OFF w/s hour

Run Number: 16119	☐ 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): 17:49 Stop time (RC GUI): 17:58	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: — k $e-\pi n$ evts: —	SHMS prescale pretrig: — k $\Sigma e-\pi n$ evts: —	COIN pretrig: — k ☐ Data ok ☒ Junk
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! Beam structure
2ns bunch spacing. Junk!

Run Number: 16120	☒ 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): 18:18 Stop time (RC GUI): 18:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 59 k $e-\pi n$ evts: 173	SHMS prescale pretrig: 43 k $\Sigma e-\pi n$ evts: 7362	COIN pretrig: 85 k ☒ Data ok ☐ Junk
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Beam structure
base to ...
 $Q = 22.7$
 $50 - 103609$

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

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

Date: 22/08/12
yy mm dd

Initials: H.M.

Continuation of Configuration:

$Q^2=3.85$, $M=3.07$, $X=0.31$

Row 2, SHMS right

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

Run Number: 16121	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:38 Stop time (RC GUI): 19:17	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 186 k $e-\pi n$ evts: 584	SHMS prescale pretrig: 145 k $\Sigma e-\pi n$ evts: 7346	COIN pretrig: 279 k ☒ Data ok ☐ Junk
Comments: $Q=76.5$ $\Sigma Q=1112.79$							

Run Number: 16122	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:18 Stop time (RC GUI): 19:25	☐ 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
Comments: Was No Beam during all run!							

Run Number: 16123	☒ 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): 19:31 Stop time (RC GUI): 20:04	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 129 k $e-\pi n$ evts: 369	SHMS prescale pretrig: 96 k $\Sigma e-\pi n$ evts: 8315	COIN pretrig: 187 k ☒ Data ok ☐ Junk
Comments: $Q=50.39$ $\Sigma Q=1163.18$							

Run Number: 16124	☒ 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): 20:04 Stop time (RC GUI): 21:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 269 k $e-\pi n$ evts: 736	SHMS prescale pretrig: 200 k $\Sigma e-\pi n$ evts: 9051	COIN pretrig: 384 k ☒ Data ok ☐ Junk
Comments: $Q=109.8$ $\Sigma Q=1267.98$							

Run Number: 16125	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 21:06 Stop time (RC GUI): 21:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 3791 k $e-\pi n$ evts: 212	SHMS prescale pretrig: 57 k $\Sigma e-\pi n$ evts: 9263	COIN pretrig: 1346 k ☒ Data ok ☐ Junk
Comments: ! HMS 3/4 $Q=29.96$ $\Sigma Q=1287.94$							

Run Number: 16126	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:27 Stop time (RC GUI): 22:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 284 k $e-\pi n$ evts: 768	SHMS prescale pretrig: 211 k $\Sigma e-\pi n$ evts: 10032	COIN pretrig: 405 k ☒ Data ok ☐ Junk
Comments: $Q=110.94$ $\Sigma Q=1408.88$							

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

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

Date: 22/08/12
yy mm dd

Initials: H.M.

Continuation of Configuration:

$Q^2 = 3.85$, $W = 3.07$, $X = 0.31$
Low E , SHMS right

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

Run Number: 16127	☒ 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): 22:22 Stop time (RC GUI): 23:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 286 k pretrig: k $e-\pi n$ evts: 786	SHMS prescale 212 k pretrig: k $\Sigma e-\pi n$ evts: 10818	COIN pretrig: 407 k ☒ Data ok ☐ Junk
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$Q = 111.47$
 $\Sigma Q = 1520.35$

Run Number: 16128	☒ 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): 23:19 Stop time (RC GUI): 00:19:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 326 k pretrig: k $e-\pi n$ evts: 900	SHMS prescale 243 k pretrig: k $\Sigma e-\pi n$ evts: 11718	COIN pretrig: 463 k ☒ Data ok ☐ Junk
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$Q = 127.121$ mC
 $\Sigma Q = 1647.471$

Run Number: 16129	☒ 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): 00:20:26 Stop time (RC GUI): 01:05:38	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 196 k pretrig: k $e-\pi n$ evts: 533	SHMS prescale 145 k pretrig: k $\Sigma e-\pi n$ evts: 12251	COIN pretrig: 282 k ☒ Data ok ☐ Junk
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$Q = 76.318$ mC
 $\Sigma Q = 1723.789$

Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k pretrig: k $e-\pi n$ evts:	SHMS prescale _____ k 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 _____ k pretrig: k $e-\pi n$ evts:	SHMS prescale _____ k 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 _____ k pretrig: k $e-\pi n$ evts:	SHMS prescale _____ k 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 08 / 13
yy mm dd

Initials: N.S.

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 3.85$, $w = 3.07$, $x = 0.31$

low Σ , SHMS center

E_{beam} : 8.479 GeV

I_{beam} : 80 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>-0.0646</u> mm		<u>-0.288</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.712</u> mm		<u>-0.526</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>245.1210</u> A B-HALL <u>0.32540</u> T	I-SET (from PSU) <u>2206.7</u> A B-HALL <u>-13.952</u> kG	HB
Q2	I-SET (from PSU) <u>194.8220</u> A B-HALL <u>-0.35549</u> T	I-SET (from PSU) <u>1376.58</u> A B-HALL <u>9.796</u> kG	Q1
Q3	I-SET (from PSU) <u>94.6685</u> A B-HALL <u>0.18703</u> T	I-SET (from PSU) <u>2305.83</u> A B-HALL <u>21.730</u> kG	Q2
D	I-READ <u>574-68</u> A B-NMR <u>0.51523</u> T	I-SET (from PSU) <u>1517.22</u> A B-HALL <u>-14.620</u> kG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>2086.02</u> A B-NMR <u>15.110</u> kG	D

Run Number:

16130

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

PS1: 13
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

1:27:43

Stop time (RC GUI):

02:20:13

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

HMS prescale
pretrig: 246 k

$e-\pi n$ evts:
1619

SHMS prescale
pretrig: 271 k

$\Sigma e-\pi n$ evts:
1619

COIN pretrig: 514 k

- ☒ Data ok
☐ Junk

Comments:

80 MA

$Q = 192.498$ mC
 $\Sigma Q = 192.498$

Run Number:

16131

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

PS1: 13
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

02:21:52

Stop time (RC GUI):

03:21:12

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

HMS prescale
pretrig: 295 k

$e-\pi n$ evts:
1957

SHMS prescale
pretrig: 326 k

$\Sigma e-\pi n$ evts:
3576

COIN pretrig: 624 k

- ☒ Data ok
☐ Junk

Comments:

80 MA

$Q = 230.692$ mC
 $\Sigma Q = 423.190$ mC

Run Number:

16132

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

PS1: 13
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

03:21:53

Stop time (RC GUI):

03:25:02

- ☒ 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:

80 MA

Fadc mode 10

Run Number:

16133

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

PS1: 13
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

03:26:30

Stop time (RC GUI):

03:26:30

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

HMS prescale
pretrig: 10626 k

$e-\pi n$ evts:
1003

SHMS prescale
pretrig: 192 k

$\Sigma e-\pi n$ evts:
4579

COIN pretrig: 355 k

- ☒ Data ok
☐ Junk

Comments:

80 MA

3/4 trigger run

$Q = 127.583$
 $\Sigma Q = 550.773$

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

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

Date: 22 / 08 / 13
yy mm dd

Initials: MS

Continuation of Configuration:

$Q^2 = 3.85$, $W = 3.07$, $x = 0.31$

low z , SHMS center

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

Run Number: <u>16134</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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>03:59:23</u> Stop time (RC GUI): <u>04:59:09</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>308</u> k SHMS prescale <u>341</u> k COIN pretrig: <u>659</u> k	$e-\pi n$ evts: <u>1895</u> $\Sigma e-\pi n$ evts: <u>6474</u> ☒ Data ok ☐ Junk
Comments: <u>80 MA</u>						
$Q = 240.541$ mC $\Sigma Q = 791.314$						

Run Number: <u>16135</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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>04:59:47</u> Stop time (RC GUI): <u>05:34:56</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>107</u> k SHMS prescale <u>108</u> k COIN pretrig: <u>173</u> k	$e-\pi n$ evts: <u>725</u> $\Sigma e-\pi n$ evts: <u>7199</u> ☒ Data ok ☐ Junk
Comments: <u>80 MA</u>						
$Q = 82.303$ mC $\Sigma Q = 873.617$						

Run Number: <u>16136</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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>8:01:42</u> Stop time (RC GUI): <u>8:58</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>217</u> k SHMS prescale <u>238</u> k COIN pretrig: <u>452</u> k	$e-\pi n$ evts: <u>1348</u> $\Sigma e-\pi n$ evts: <u>8547</u> ☒ Data ok ☐ Junk
Comments:						
$Q = 169.963$ mC $\Sigma Q = 1043.58$ mC						

Run Number: <u>16137</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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>9:16:08</u> Stop time (RC GUI): <u>10:16:39</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>249</u> k SHMS prescale <u>271</u> k COIN pretrig: <u>509</u> k	$e-\pi n$ evts: <u>1562</u> $\Sigma e-\pi n$ evts: <u>10,109</u> ☒ Data ok ☒ Junk
Comments:						
$Q = 194.539$ mC $\Sigma Q = 1238.119$						

Run Number: <u>16138</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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>10:17:14</u> Stop time (RC GUI): <u>11:19:26</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>306</u> k SHMS prescale <u>338</u> k COIN pretrig: <u>654</u> k	$e-\pi n$ evts: <u>1974</u> $\Sigma e-\pi n$ evts: <u>12,083</u> ☒ Data ok ☐ Junk
Comments:						
$Q = 238.844$ mC $Q_{tot} = 1476.963$ mC						

Run Number: <u>16139</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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>11:20:17</u> Stop time (RC GUI): <u>12:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>250</u> k SHMS prescale <u>273</u> k COIN pretrig: <u>522</u> k	$e-\pi n$ evts: <u>1561</u> $\Sigma e-\pi n$ evts: <u>13,644</u> ☒ Data ok ☐ Junk
Comments:						
$Q = 194.687$ mC $Q_{tot} = 1671.644$ mC						

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

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

Date: 22/08/13
yy mm dd

Initials: _____

Continuation of Configuration:

$Q^2 = 3.85$, $x = 3.07$, $x = 0.31$

low z , SHMS center

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

Run Number: 16140	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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): <u>12:21:16</u> Stop time (RC GUI): <u>13:22:39</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>299</u> k SHMS prescale <u>330</u> k COIN pretrig: <u>635</u> k e- π n evts: <u>1881</u> Σ e- π n evts: <u>15,525</u>	☒ Data ok ☐ Junk
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$Q = 233.869$ mC
 $Q_{tot} = 1905.513$ mC

Run Number: 16141	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</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): <u>13:23</u> Stop time (RC GUI): <u>14:21</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>235</u> k SHMS prescale <u>254</u> k COIN pretrig: <u>476</u> k e- π n evts: <u>1497</u> Σ e- π n evts: <u>17,022</u>	☒ Data ok ☐ Junk
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$Q = 182.364$ mC
 $Q_{tot} = 2087.877$ mC

Run Number: 16142	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 13:23:10 <u>15:58:23</u> Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k SHMS prescale _____ k COIN pretrig: _____ k e- π n evts: _____ Σ e- π n evts: _____	☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k SHMS prescale _____ k COIN pretrig: _____ k e- π n evts: _____ Σ e- π n evts: _____	☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k SHMS prescale _____ k COIN pretrig: _____ k e- π n evts: _____ Σ e- π n evts: _____	☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale _____ k SHMS prescale _____ k COIN pretrig: _____ k e- π n evts: _____ Σ e- π n evts: _____	☐ 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: 22/08/13
yy mm dd

Initials: VLT

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 3.85$, $|X| = 3.07$, $X = 0.31$

low Σ , SHMS left

E_{beam} : 8.458 GeV

I_{beam} : 80 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
	<u>-0.107</u> mm	<u>-0.303</u> mm
Nomin:	<u>-0.09</u>	<u>-0.3</u>
3H07C	X	Y
	<u>-0.698</u> mm	<u>-0.433</u> mm
Nomin:	<u>-0.68</u>	<u>-0.49</u>

HMS

SHMS

Q1	I-SET (from PSU) <u>245.1210</u> A B-HALL <u>0.32290</u> T	I-SET (from PSU) <u>2206.7000</u> A B-HALL <u>-13.950</u> kG	HB
Q2	I-SET (from PSU) <u>194.8220</u> A B-HALL <u>-0.35460</u> T	I-SET (from PSU) <u>1376.5800</u> A B-HALL <u>9.796</u> kG	Q1
Q3	I-SET (from PSU) <u>94.6685</u> A B-HALL <u>0.18617</u> T	I-SET (from PSU) <u>2305.8300</u> A B-HALL <u>-21.732</u> kG	Q2
D	I-READ <u>575.8000</u> A B-NMR <u>0.5152330</u> T	I-SET (from PSU) <u>1517.2200</u> A B-HALL <u>-14.619</u> kG	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?		D
		<u>2086.0200</u> A B-NMR <u>15.110</u> kG	

Run Number:

16143

- ☒ 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):

16:07:32

Stop time (RC GUI):

16:31:11

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

HMS prescale
pretrig: 50 k

$e-\pi n$ evts:

235

SHMS prescale
pretrig: 38 k

$\Sigma e-\pi n$ evts:

235

COIN pretrig: 45 k

- ☒ Data ok
☐ Junk

Comments:

Stopped to cure beam trips.

$Q = 38.81$
 $\Sigma Q = 38.81$

Run Number:

16144

- ☐ 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, beam unstable.

Run Number:

16145

- ☐ 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:

16146

- ☒ 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):

18:16:02

Stop time (RC GUI):

19:08:28

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

HMS prescale
pretrig: 239 k

$e-\pi n$ evts:

1105

SHMS prescale
pretrig: 189 k

$\Sigma e-\pi n$ evts:

1340

COIN pretrig: 211 k

- ☒ Data ok
☐ Junk

Comments:

$Q = 186.264$
 $\Sigma Q = 225.074$

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

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

Date: 22/08/13
yy mm dd

Initials: VHT

Continuation of Configuration:

$Q^2 = 3.85$, $W = 3.07$, $X = 0.31$

low ϵ , SHMS left

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

Run Number: <u>16147</u>	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>19:10:52</u> Stop time (RC GUI): <u>19:51:05</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>124</u> k $e-\pi n$ evts: <u>537</u>	SHMS prescale <u>94</u> k $\Sigma e-\pi n$ evts: <u>1877</u>	COIN pretrig: <u>105</u> k ☒ Data ok ☐ Junk
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Beam unstable in first ~15 min,
east ~10 min as well.

$Q = 95.277$
 $\Sigma Q = 320.351$

Run Number: <u>16148</u>	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>19:54:35</u> Stop time (RC GUI): <u>20:47:02</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>287</u> k $e-\pi n$ evts: <u>1308</u>	SHMS prescale <u>228</u> k $\Sigma e-\pi n$ evts: <u>3185</u>	COIN pretrig: <u>248</u> k ☒ Data ok ☐ Junk
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$Q = 223.847$
 $\Sigma Q = 544.198$

Run Number: <u>16149</u>	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>20:48:22</u> Stop time (RC GUI): <u>20:55:50</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale ____ k $e-\pi n$ evts:	SHMS prescale ____ k $\Sigma e-\pi n$ evts:	COIN pretrig: ____ k ☐ Data ok ☐ Junk
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Junk.

Run Number: <u>16150</u>	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>20:58:27</u> Stop time (RC GUI): <u>21:02:38</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale ____ k $e-\pi n$ evts:	SHMS prescale ____ k $\Sigma e-\pi n$ evts:	COIN pretrig: ____ k ☐ Data ok ☐ Junk
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MODE-10

Run Number: <u>16151</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: <u>12</u> PS2: <u>-1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): <u>21:03:45</u> Stop time (RC GUI): <u>21:25:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>5431</u> k $e-\pi n$ evts: <u>381</u>	SHMS prescale <u>66</u> k $\Sigma e-\pi n$ evts: <u>3566</u>	COIN pretrig: <u>71</u> k ☒ Data ok ☐ Junk
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HMS-3/A.

$Q = 65.010$
 $\Sigma Q = 609.208$

Run Number: <u>16152</u>	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>21:27:03</u> Stop time (RC GUI): <u>22:26:17</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>284</u> k $e-\pi n$ evts: <u>1304</u>	SHMS prescale <u>223</u> k $\Sigma e-\pi n$ evts: <u>4870</u>	COIN pretrig: <u>246</u> k ☒ Data ok ☒ Junk
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$Q = 220.363$
 $\Sigma Q = 829.571$

p(e,e' π)n Run Sheet

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

Date: 22/08/13
yy mm dd

Initials: VHJ

Continuation of Configuration:

$Q^2 = 3.85$, $W = 3.07$
SHMS Left (9.470).

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

Run Number: 16153	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:27:07</u> Stop time (RC GUI): <u>23:26:31</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>287</u> k pretrig: $e-\pi n$ evts: <u>1310</u>	SHMS prescale <u>226</u> k pretrig: $\Sigma e-\pi n$ evts: <u>6180</u>	COIN pretrig: <u>249</u> k ☒ Data ok ☐ Junk
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$Q = 222.540$
 $\Sigma Q = 1052.111$

Run Number: 16154	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:27:13</u> Stop time (RC GUI): <u>00:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>333</u> k pretrig: $e-\pi n$ evts: <u>1567</u>	SHMS prescale <u>263</u> k pretrig: $\Sigma e-\pi n$ evts: <u>7747</u>	COIN pretrig: <u>288</u> k ☒ Data ok ☐ Junk
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$Q = 258.897$ mC
 $\Sigma Q = 1311.008$ mC

Run Number: 16155	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>00:27</u> Stop time (RC GUI): <u>01:26</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>298</u> k pretrig: $e-\pi n$ evts: <u>1388</u>	SHMS prescale <u>234</u> k pretrig: $\Sigma e-\pi n$ evts: <u>9135</u>	COIN pretrig: <u>257</u> k ☒ Data ok ☐ Junk
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$Q = 231.276$ ~ 9000
 $\Sigma Q = 1542.284$

Run Number: 16156	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>01:26</u> Stop time (RC GUI): <u>02:26</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>319</u> k pretrig: $e-\pi n$ evts: <u>1491</u>	SHMS prescale <u>250</u> k pretrig: $\Sigma e-\pi n$ evts: <u>10626</u>	COIN pretrig: <u>275</u> k ☒ Data ok ☐ Junk
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$Q = 246.937$ ~ 10500
 $\Sigma Q = 1789.221$

Run Number: 16157	☒ 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>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>02:26</u> Stop time (RC GUI): <u>03:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>281</u> k pretrig: $e-\pi n$ evts: <u>1328</u>	SHMS prescale <u>219</u> k pretrig: $\Sigma e-\pi n$ evts: <u>11954</u>	COIN pretrig: <u>272</u> k ☒ Data ok ☐ Junk
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$Q = 216.951$ ~ 12000
 $\Sigma Q = 2006.172$

Run Number: 16158	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>8</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>03:34</u> Stop time (RC GUI): <u>04:30</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>410</u> k pretrig: $e-\pi n$ evts: <u>44</u>	SHMS prescale <u>374</u> k pretrig: $\Sigma e-\pi n$ evts: <u>44</u>	COIN pretrig: <u>39</u> k ☐ Data ok ☐ Junk
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