

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

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

Use a separate sheet for each configuration.

Date: 22/08/16
yy mm dd

Initials: _____

HMS

SHMS

Configuration Name: _____

$Q^2 = 1.95$ $W = 2.02$ $x = 0.318$ high
Right

Purpose:

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

E_{beam} : 6.372 GeV

I_{beam} : 50 μA

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

p : +/- -3.92 $\theta(\text{TV})$: 13.81
From GUI Nearest 0.005

SHMS

p : +/- 12.412 $\theta(\text{TV})$: 17.86
From GUI Nearest 0.005

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

Q1	I-SET (from PSU) <u>510.839</u> A B-HALL <u>0.67310</u> <u>0.67810</u> T	I-SET (from PSU) <u>797.897</u> A B-HALL <u>-5.04</u> kg	HB
Q2	I-SET (from PSU) <u>406.19</u> A B-HALL <u>-0.78586</u> T	I-SET (from PSU) <u>506.447</u> A B-HALL <u>7.621</u> kg	Q1
Q3	I-SET (from PSU) <u>197.519</u> A B-HALL <u>0.34480</u> T	I-SET (from PSU) <u>850.668</u> A B-HALL <u>-8.024</u> kg	Q2
D	I-READ <u>1202.43</u> A B-NMR <u>1.073440</u> T	I-SET (from PSU) <u>559.732</u> A B-HALL <u>-5.474</u> kg	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) <u>769.574</u> A B-NMR <u>5.551</u> kg	D

Run Number:

16244

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

PS1: _____
PS2: _____
PS3: _____
PS4: _____
PS5: _____
PS6: _____
Mode10: cer / fadc

Start time (RC GUI):

17:45:10

Stop time (RC GUI):

17:46:54

- ☐ 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:

C-hole, checking beam spot.

Run Number:

16245

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

PS1: 13
PS2: -1
PS3: -1
PS4: 11
PS5: 10
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

18:35

Stop time (RC GUI):

18:48:11

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

HMS prescale
pretrig: 52 k

$e-\pi n$ evts:

24997

SHMS prescale
pretrig: 49 k

$\Sigma e-\pi n$ evts:

24997

COIN
pretrig: 1297 k

- ☒ Data ok
☐ Junk

Comments:

1.4 M events

$Q = 31.979$

Run Number:

16246

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

PS1: 13
PS2: -1
PS3: -1
PS4: 11
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

18:49:55

Stop time (RC GUI):

19:02:23

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

HMS prescale
pretrig: 55 k

$e-\pi n$ evts:

26389

SHMS prescale
pretrig: 52 k

$\Sigma e-\pi n$ evts:

51386

COIN
pretrig: 1339 k

- ☒ Data ok
☐ Junk

Comments:

$Q = 33.828$
 $\Sigma Q = 65.807$

Run Number:

16247

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

PS1: 13
PS2: -1
PS3: -1
PS4: 11
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

18:48:19:03:4

Stop time (RC GUI):

19:16:39

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

HMS prescale
pretrig: 55 k

$e-\pi n$ evts:

26111

SHMS prescale
pretrig: 52 k

$\Sigma e-\pi n$ evts:

77497

COIN
pretrig: 1310 k

- ☐ Data ok
☐ Junk

Comments:

$\Sigma Q = 99.43$

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

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

Date: 22 / 08 / 17
yy mm dd

Initials: VHT

Continuation of Configuration:

$Q^2 = 1.45$, $W = 2.02$, $x = 0.318$
high z Right

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

Run Number: <u>16248</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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>19:17:29</u> Stop time (RC GUI): <u>19:20:27</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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Comments:

Mode 10, 299 k events

Run Number: <u>16249</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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>19:21:09</u> Stop time (RC GUI): <u>19:34:05</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>56</u> k $e-\pi n$ evts: <u>26687</u>	SHMS prescale pretrig: <u>53</u> k $\Sigma e-\pi n$ evts: <u>104184</u>	COIN pretrig: <u>1344</u> k ☐ Data ok ☐ Junk
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Comments:

1.45M events

$Q = 34.13$
 $\Sigma Q = 133.565$

Run Number: <u>16250</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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>19:51:25</u> Stop time (RC GUI): <u>20:01:35</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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Comments:

Dummy target run.

Run Number: <u>16251</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): _____ Stop time (RC GUI): _____	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Comments:

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

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

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

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

Date: 22/08/17
yy mm dd

Initials: GH

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 1.45$, $x = 2.02$, $x = 0.318$
high ϵ Center

E_{beam} : 6.372 GeV

I_{beam} : 60 μA

Purpose:

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

Raster: ☒ On ☐ Off

Size: _____

Beam position and angle on target:

3H07A	X	Y
<u>-0.10</u> mm	<u>-0.31</u> mm	
Nomin: <u>-0.09</u>	Nomin: <u>-0.3</u>	
3H07C	X	Y
<u>-0.70</u> mm	<u>-0.49</u> mm	
Nomin: <u>-0.66</u>	Nomin: <u>-0.49</u>	

HMS

SHMS

Q1	I-SET (from PSU) B-HALL A T	I-SET (from PSU) B-HALL A kG	HB
Q2	I-SET (from PSU) B-HALL A T	I-SET (from PSU) B-HALL A kG	Q1
Q3	I-SET (from PSU) B-HALL A T	I-SET (from PSU) B-HALL A kG	Q2
D	I-READ B-NMR A T	I-SET (from PSU) B-HALL A kG	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) B-NMR A kG	D

Run Number:

16251

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

PS1: 13
PS2: -1
PS3: -1
PS4: 11
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

20:08:39

Stop time (RC GUI):

20:18:45

☒ 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 target run.

Run Number:

16252

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

PS1: 12
PS2: -1
PS3: -1
PS4: 11
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

20:47:26

Stop time (RC GUI):

21:08:36

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 41 k

$e-\pi n$ evts: 18867

SHMS prescale
pretrig: 51 k

$\Sigma e-\pi n$ evts: 18867

COIN pretrig: 797 k

☒ Data ok

☐ Junk

Comments:

886 k events.
No beam last 12 min.

$Q = 25.084$
 $\Sigma Q = 25.084$

Run Number:

16253

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

PS1: 12
PS2: -1
PS3: -1
PS4: 11
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

21:50:52

Stop time (RC GUI):

21:36:30

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 66 k

$e-\pi n$ evts: 30835

SHMS prescale
pretrig: 83 k

$\Sigma e-\pi n$ evts: 49702

COIN pretrig: 1264 k

☒ Data ok

☐ Junk

Comments:

$Q = 40.83$
 $\Sigma Q = 65.9$

Run Number:

16254

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

PS1: 12
PS2: 7
PS3: -1
PS4: 11
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

21:37:09

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:

mode 10. Junk, no beam.

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

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

Date: 22/08/17
yy mm dd

Initials: VHT

Continuation of Configuration:

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

$Q2 = 1.48$, $W = 2.02$, $x = 0.318$
high z center

Run Number: 16255	☒ 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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>21:40:12</u> Stop time (RC GUI): <u>21:42:52</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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Mode 10. Evens-244k.

Run Number: 16256	☒ 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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>21:43:36</u> Stop time (RC GUI): <u>22:04:58</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>80</u> k $e-\pi n$ evts: <u>37324</u>	SHMS prescale pretrig: <u>99</u> k $\Sigma e-\pi n$ evts: <u>122763</u>	COIN pretrig: <u>1556</u> k ☒ Data ok ☐ Junk
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1.7 m events

$Q = 49.18$
 $\Sigma Q = 162.2$

Run Number: 16257	☒ 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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:05:47</u> Stop time (RC GUI): <u>22:22:08</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>77</u> k $e-\pi n$ evts: <u>35737</u>	SHMS prescale pretrig: <u>95</u> k $\Sigma e-\pi n$ evts: <u>85438</u>	COIN pretrig: <u>1485</u> k ☒ Data ok ☐ Junk
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$Q = 47.1$
 $\Sigma Q = 143.018$

Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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$p(e, e'\pi)n$ Run Sheet

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

Date: 22 / 08 / 17
yy mm dd

Initials: VHT
GH

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 1.45$, $W = 2.02$, $X = 0.318$
high Σ SHMS Left

E_{beam} : 6.373 GeV

I_{beam} : 80 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: _____

Beam position and angle on target:

3H07A	X	Y
-0.10 mm	-0.32 mm	
Nomin: -0.09	Nomin: -0.30	
3H07C	X	Y
-0.70 mm	-0.50 mm	
Nomin: -0.68	Nomin: -0.49	

HMS

SHMS

Q1	I-SET (from PSU) 510.6390 A B-HALL 0.67590 T	I-SET (from PSU) 797.8970 A B-HALL -5.047 kG	HB
Q2	I-SET (from PSU) 406.1900 A B-HALL -0.78449 T	I-SET (from PSU) 506.4470 A B-HALL 3.620 kG	Q1
Q3	I-SET (from PSU) 197.5190 A B-HALL 0.39902 T	I-SET (from PSU) 850.6680 A B-HALL -8.025 kG	Q2
D	I-READ SET 1203.4800 A B-NMR 1.0734100 T	I-SET (from PSU) 559.7320 A B-HALL -5.479 kG	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?		D
		I-SET (from PSU) 769.5740 A B-NMR 5.551 kG	

Run Number:

16258

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

PS1: 12
PS2: 7
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

22:32:45

Stop time (RC GUI):

22:47:12

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

HMS prescale
pretrig: 80 k

$e\pi n$ evts:

31111

SHMS prescale
pretrig: 64 k

$\Sigma e\pi n$ evts:

31111

COIN pretrig: 1321 k

- ☒ Data ok
☐ Junk

Comments:

1.46 M events

$Q = 49.633$
 $\Sigma Q = 49.633$

Run Number:

16259

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

PS1: 12
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

22:56:44

Stop time (RC GUI):

23:14

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

HMS prescale
pretrig: k

$e\pi n$ evts:

33429

SHMS prescale
pretrig: k

$\Sigma e\pi n$ evts:

64540

COIN pretrig: k

- ☒ Data ok
☐ Junk

Comments:

1.53 M events. End run failed.

Run Number:

16260

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

PS1: 12
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

23:19:35

Stop time (RC GUI):

23:33:25

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

HMS prescale
pretrig: k

$e\pi n$ evts:

31850

SHMS prescale
pretrig: k

$\Sigma e\pi n$ evts:

96390

COIN pretrig: k

- ☒ Data ok
☐ Junk

Comments:

1.50 M events

Run Number:

16261

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

PS1: 12
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

23:19:35

Stop time (RC GUI):

23:47

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

HMS prescale
pretrig: k

$e\pi n$ evts:

31850

SHMS prescale
pretrig: k

$\Sigma e\pi n$ evts:

129096

COIN pretrig: k

- ☒ Data ok
☐ Junk

Comments:

1.5 M events
End run failed

32706

p(e,e' π)n Run Sheet

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

Date: 22/08/17
yy mm dd

Initials: VHT

Continuation of Configuration:

$Q^2=1.45$, $W=2.02$, $x=0.318$

high Σ SHMS left

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

Run Number: 16262	☒ 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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:51:39</u> Stop time (RC GUI): <u>23:54</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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Comments: Mode10, 215k events

Run Number: 16263	☒ 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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:55:15</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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Comments: Junk. No Beam.

Run Number: 16264	☒ 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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>00:07:08</u> Stop time (RC GUI): <u>00:09:27</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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Comments: Junk DAG problems.

Run Number: 16265	☐ 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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>00:26:58</u> Stop time (RC GUI): <u>00:44</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: <u>1325</u>	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: <u>1325</u>	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments: 107k events

Run Number: 16266	☒ 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>10</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>00:52</u> Stop time (RC GUI): <u>01:31</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>105</u> k $e-\pi n$ evts: <u>82903</u>	SHMS prescale pretrig: <u>130</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>686</u> k ☒ Data ok ☐ Junk
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Comments: FADC DEAD TIME 40 μ A

Run Number: 16267	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☐ Data ok ☒ Junk
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Comments: JUNK FORGOT TO SAVE Prescales

p(e,e' π)n Run Sheet

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

Date: 22/8/18
yy mm dd

Initials: WH

Continuation of Configuration:

$Q^2 = 1.45$ $W = 2.02$ $x = 0.318$

high ϵ SHMS LEFT

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

Run Number: <u>16268</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>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>01:35</u> Stop time (RC GUI): <u>02:08</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>104</u> k $e-\pi n$ evts: <u>38381</u>	SHMS prescale pretrig: <u>130</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>240</u> k ☒ Data ok ☐ Junk
Comments: <u>20 nA</u> <u>Fade</u> <u>Deadtime</u>							

Run Number: <u>16269</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>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>02:09</u> Stop time (RC GUI): <u>02:52</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>104</u> k $e-\pi n$ evts: <u>30713</u>	SHMS prescale pretrig: <u>130</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>240</u> k ☒ Data ok ☐ Junk
Comments: <u>20 nA</u> <u>FADC</u> <u>Deadtime</u>							

Run Number: <u>16270</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>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>02:54</u> Stop time (RC GUI): <u>02:57</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>65</u> k $e-\pi n$ evts: <u>2770</u>	SHMS prescale pretrig: <u>80</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>113</u> k ☒ Data ok ☐ Junk
Comments: <u>12 nA</u> <u>FADC</u> <u>Deadtime</u> <u>Start Run</u>							

Run Number: <u>16271</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10.9</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): <u>02:58</u> Stop time (RC GUI): <u>03:59</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>224</u> k $e-\pi n$ evts: <u>36064</u>	SHMS prescale pretrig: <u>360</u> k $\Sigma e-\pi n$ evts: <u>31792</u>	COIN pretrig: <u>327</u> k ☒ Data ok ☐ Junk
Comments: <u>12 nA</u> <u>FADC</u> <u>DT</u> <u>33.340 ml</u>							

Run Number: <u>16272</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>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>3:59</u> Stop time (RC GUI): <u>4:00 5:00</u>	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts: <u>30863</u>	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts:	COIN pretrig: ____ k ☒ Data ok ☐ Junk
Comments: <u>12 nA</u> <u>FADC</u> <u>DT</u>							

Run Number: <u>16273</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>11</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>5:01</u> Stop time (RC GUI): <u>5:13</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts: <u>41020</u>	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts:	COIN pretrig: ____ k ☒ Data ok ☐ Junk
Comments: <u>60 nA</u> <u>FADC</u> <u>DT</u> <u>End of Run Failed</u>							

p(e,e' π)n Run Sheet

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

Date: 22 / 8 / 18
yy mm dd

Initials: _____

Continuation of Configuration:

$Q^2=1.45$ $W=2.02$ $X=0.318$

high E SHMS LEFT

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

Run Number: 16275	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 11 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 5:17 Stop time (RC GUI): 5:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k 47639 $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
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60 nA FADE Deadtime

Run Number: 16276	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 10 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 5:33 Stop time (RC GUI): 6:20	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k 73939 $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
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30 nA FADE Deadtime

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