

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

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

Date: 22/08/18
yy mm dd

Initials: _____

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 2.73$, $W = 2.63$, $x = 0.3114$
low θ , SHMS right

E_{beam} : 6.372 GeV

I_{beam} : 72 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>-0.03</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.7</u> mm		<u>-0.5</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>224.922</u> A B-HALL	A	I-SET (from PSU) <u>1534.45</u> A B-HALL	A	HB
	<u>0.296</u> T	T	<u>-9.716</u> kG		
Q2	I-SET (from PSU) <u>178.754</u> A B-HALL	A	I-SET (from PSU) <u>966.911</u> A B-HALL	A	Q1
	<u>-0.31953</u> T	T	<u>6.907</u> kG		
Q3	I-SET (from PSU) <u>86.8501</u> A B-HALL	A	I-SET (from PSU) <u>1624.1</u> A B-HALL	A	Q2
	<u>0.17445</u> T	T	<u>-15.287</u> kG		
D	I-READ <u>528.03</u> A B-NMR	A	I-SET (from PSU) <u>1068.64</u> A B-HALL	A	Q3
	<u>0.47277</u> T	T	<u>-10.348</u> kG		
	If momentum increased:		I-SET (from PSU) <u>1469.27</u> A B-NMR	A	D
	☒ HMS cycled?		<u>10.61</u> kG		
	☒ SHMS cycled?				

Run Number:

16287

- ☒ 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):

16:14:27

Stop time (RC GUI):

16:21:02

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

HMS prescale
pretrig: 14 k

$e-\pi n$ evts:
312

SHMS prescale
pretrig: 18 k

$\Sigma e-\pi n$ evts:
312

COIN pretrig: 69 k

- ☒ Data ok
☐ Junk

Comments:

Short run to check rates

$Q = 18.992$

Run Number:

16288

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

PS1: 13
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

16:21:35

Stop time (RC GUI):

16:31:44

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

HMS prescale
pretrig: 25 k

$e-\pi n$ evts:
579

SHMS prescale
pretrig: 32 k

$\Sigma e-\pi n$ evts:
831

COIN pretrig: 128 k

- ☒ Data ok
☐ Junk

Comments:

Short run to check rates.

$Q = 33.665$
 $\Sigma Q = 52.377$

Run Number:

16289

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

PS1: 13
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

16:32:30

Stop time (RC GUI):

17:02:15

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

HMS prescale
pretrig: 73 k

$e-\pi n$ evts:
1507

SHMS prescale
pretrig: 94 k

$\Sigma e-\pi n$ evts:
2338

COIN pretrig: 373 k

- ☒ Data ok
☐ Junk

Comments:

$Q = 97.457$
 $\Sigma Q = 149.834$

Run Number:

16290

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

PS1: 13
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

17:02:47

Stop time (RC GUI):

17:32:27

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

HMS prescale
pretrig: 35 k

$e-\pi n$ evts:
821

SHMS prescale
pretrig: 45 k

$\Sigma e-\pi n$ evts:
3159

COIN pretrig: 183 k

- ☒ Data ok
☐ Junk

Comments:

Beam off for ~15 min in the middle of run.

$Q = 46.282$
 $\Sigma Q = 196.116$

p(e,e' π)n Run Sheet

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

Date: 22/08/18
yy mm dd

Initials: VHT

Continuation of Configuration:

$Q^2 = 2.73$, $W = 2.63$,

$x = 0.344$, Low z , SHMS right

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

Run Number: 16291	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>17:33:05</u> Stop time (RC GUI): <u>18:02:59</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>73</u> k pretrig: $e-\pi n$ evts: <u>1587</u>	SHMS prescale <u>94</u> k pretrig: $\Sigma e-\pi n$ evts: <u>4746</u>	COIN pretrig: <u>375</u> k ☒ Data ok ☐ Junk
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$Q = 97.174$
 $\Sigma Q = 293.290$

Run Number: 16292	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>18:03:37</u> Stop time (RC GUI): <u>18:34:25</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>83</u> k pretrig: $e-\pi n$ evts: <u>1785</u>	SHMS prescale <u>108</u> k pretrig: $\Sigma e-\pi n$ evts: <u>6531</u>	COIN pretrig: <u>428</u> k ☒ Data ok ☐ Junk
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$Q = 110.670$
 $\Sigma Q = 403.960$

Run Number: 16293	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>18:35:05</u> Stop time (RC GUI): <u>19:06:29</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>75</u> k pretrig: $e-\pi n$ evts: <u>1605</u>	SHMS prescale <u>96</u> k pretrig: $\Sigma e-\pi n$ evts: <u>8136</u>	COIN pretrig: <u>370</u> k ☒ Data ok ☐ Junk
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$Q = 99.468$
 $\Sigma Q = 503.428$

Run Number: 16294	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:07:43</u> Stop time (RC GUI): <u>19:37:48</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>83</u> k pretrig: $e-\pi n$ evts: <u>1723</u>	SHMS prescale <u>108</u> k pretrig: $\Sigma e-\pi n$ evts: <u>9859</u>	COIN pretrig: <u>425</u> k ☒ Data ok ☐ Junk
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$Q = 110.661$
 $\Sigma Q = 614.089$

Run Number: 16295	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:38:30</u> Stop time (RC GUI): <u>20:06:22</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>49</u> k pretrig: $e-\pi n$ evts: <u>1080</u>	SHMS prescale <u>63</u> k pretrig: $\Sigma e-\pi n$ evts: <u>10989</u>	COIN pretrig: <u>254</u> k ☒ Data ok ☐ Junk
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No beam for east ~ 5 min.

$Q = 64.478$
 $\Sigma Q = 678.567$

Run Number: 16296	☒ 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>21:13:25</u> Stop time (RC GUI): <u>21:51:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>957</u> k pretrig: $e-\pi n$ evts: <u>1615</u>	SHMS prescale <u>95</u> k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: <u>363</u> k ☐ Data ok ☐ Junk
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3/4 trigger run.

$Q = 98.197$

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

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

Date: 22/08/18
yy mm dd

Initials: VHT

Continuation of Configuration:

$Q^2 = 2.73$, $W = 2.63$, $x = 0.3114$
low z , SHMS right

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

Run Number: <u>16297</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>8</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): <u>21:53:05</u> Stop time (RC GUI): <u>21:56:58</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.

Run Number: <u>16298</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>85</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:04:00</u> Stop time (RC GUI): <u>22:34:39</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 Number: <u>16299</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>8</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☐ Data ok ☐ Junk
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Comments:

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

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

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

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

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

Date: ____/____/____
yy mm dd

Initials: ____

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 2.73, |X| = 2.63, X = 0.314$

low Q , SHMS center

E_{beam} : 6.372 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
-0.0 mm	-0.3 mm	
Nomin:	Nomin:	
3H07C	X	Y
-0.7 mm	-0.5 mm	
Nomin:	Nomin:	

HMS

SHMS

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

Run Number:

16299

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

PS1: 13
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

22:44:06

Stop time (RC GUI):

23:14:11

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 83 k

$e-\pi n$ evts:

1951

SHMS prescale
pretrig: 102 k

$\Sigma e-\pi n$ evts:

1951

COIN pretrig: 233 k

☐ Data ok

☐ Junk

Comments:

$Q = 110.695$

Run Number:

16300

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

PS1: 13
PS2: -1
PS3: -1
PS4: 8
PS5: -9
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

23:14:59

Stop time (RC GUI):

23:44:41

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 94 k

$e-\pi n$ evts:

2201

SHMS prescale
pretrig: 116 k

$\Sigma e-\pi n$ evts:

4152

COIN pretrig: 265 k

☐ Data ok

☐ Junk

Comments:

$Q = 125.728$
 $\Sigma Q = 236.473$

Run Number:

16301

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

PS1: 13
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

23:45:19

Stop time (RC GUI):

00:17

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: k

$e-\pi n$ evts:

1889

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

6041

COIN pretrig: k

☐ Data ok

☐ Junk

Comments:

$Q = 108.2$

Run Number:

16302

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

PS1: 13
PS2: -1
PS3: -1
PS4: 8
PS5: -1
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

00:17

Stop time (RC GUI):

00:48

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 74 k

$e-\pi n$ evts:

2138

SHMS prescale
pretrig: 60 k

$\Sigma e-\pi n$ evts:

8179

COIN pretrig: 171 k

☐ Data ok

☐ Junk

Comments:

$Q = 115.0$

p(e,e' π)n Run Sheet

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

Date: ____/____/____
yy mm dd

Initials: ____

Continuation of Configuration:

$Q^2 = 2.73$ $W = 2.63$ $x = 0.314$
low ϵ , SHMS Center

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

Run Number: 16303	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 00:49 Stop time (RC GUI): 00:52	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 0 k $e-\pi n$ evts: 0	SHMS prescale pretrig: 8179 k $\Sigma e-\pi n$ evts: 8179	COIN pretrig: X k ☐ Data ok ☒ Junk
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No Beam

Run Number: 16304	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 01:12 Stop time (RC GUI): 01:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 7 k $e-\pi n$ evts: 847	SHMS prescale pretrig: 277 k $\Sigma e-\pi n$ evts: 9026	COIN pretrig: 0.15 k ☒ Data ok ☐ Junk
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Run Number: 16305	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): 01:40 Stop time (RC GUI): 02:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 2872 k $e-\pi n$ evts: 2872	SHMS prescale pretrig: 11898 k $\Sigma e-\pi n$ evts: 11898	COIN pretrig: 0.15 k ☐ Data ok ☐ Junk
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HMS 3/4

Run Number: 16306	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 2:19 Stop time (RC GUI): 2:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 0 k $e-\pi n$ evts: 0	SHMS prescale pretrig: 0 k $\Sigma e-\pi n$ evts: 0	COIN pretrig: X k ☐ Data ok ☒ Junk
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FADC mode 10 No Beam

Run Number: 16307	☒ 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>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 2:47 Stop time (RC GUI): 2:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 7 k $e-\pi n$ evts: 634	SHMS prescale pretrig: 272 k $\Sigma e-\pi n$ evts: 272	COIN pretrig: 0.15 k ☐ Data ok ☐ Junk
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FADC mode 10

Run Number: 16308	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>7</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): 3:03 Stop time (RC GUI): 3:18	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 40	SHMS prescale pretrig: 40 k $\Sigma e-\pi n$ evts: 40	COIN pretrig: 0.15 k ☐ Data ok ☐ Junk
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FADC mode 10 mistake

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

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

Date: 22/8/19
yy mm dd

Initials: WH

Use a separate sheet for each configuration.

Configuration Name:

$Q^2 = 2.73$ $W = 2.03$, $x = 0.314$

low E SHMS LEFT

E_{beam} : 6.372 GeV

I_{beam} : _____ 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>-0.1</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.7</u> mm		<u>-0.5</u> mm
Nomin:		Nomin:

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:

16309

- ☐ 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):

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:

16310

- ☐ 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):

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:

fademode 10⁵ mistake

Run Number:

16311

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

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

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: 220 k

$e-\pi n$ evts:

SHMS prescale
pretrig: 259 k

$\Sigma e-\pi n$ evts:

COIN pretrig: 169 k

- ☒ Data ok
☐ Junk

Comments:

Run Number:

16312

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

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

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: k

$e-\pi n$ evts:

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN pretrig: k

- ☐ Data ok
☐ Junk

Comments:

Fademode 10

p(e,e' π)n Run Sheet

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

Date: 22 / 8 / 15
yy mm dd

Initials: W4

Continuation of Configuration:

$Q^2 = 2.73$ $\omega = 2.63$ $X = 0.314$

low E SHMS LEFT

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

Run Number: 16313	☒ 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: _____ $e-\pi n$ evts: _____	SHMS prescale _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☒ Junk
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JUNK

Run Number: 16314	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 11 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 04:54 Stop time (RC GUI): 05:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 1098 k pretrig: _____ $e-\pi n$ evts: 1623	SHMS prescale 197 k pretrig: _____ $\Sigma e-\pi n$ evts: 3698	COIN pretrig: 131 k ☒ Data ok ☐ Junk
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HMS 3/4

Run Number: 16315	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:32 Stop time (RC GUI): 06:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 197 k pretrig: _____ $e-\pi n$ evts: 1875	SHMS prescale 231 k pretrig: _____ $\Sigma e-\pi n$ evts: 5573	COIN pretrig: 152 k ☒ Data ok ☐ Junk
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Run Number: 16316	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 06:22 Stop time (RC GUI): 07:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 243 k pretrig: _____ $e-\pi n$ evts: 2292	SHMS prescale 286 k pretrig: _____ $\Sigma e-\pi n$ evts: 7865	COIN pretrig: 187 k ☒ Data ok ☐ Junk
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Run Number: 16317	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 07:16 Stop time (RC GUI): 07:58	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale 226 k pretrig: _____ $e-\pi n$ evts: 2124	SHMS prescale 266 k pretrig: _____ $\Sigma e-\pi n$ evts: 9989	COIN pretrig: 172 k ☒ Data ok ☐ Junk
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Run Number: 16318	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 07:59 Stop time (RC GUI): _____	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale 129 k pretrig: _____ $e-\pi n$ evts: 1171	SHMS prescale 152 k pretrig: 471 $\Sigma e-\pi n$ evts: 11160	COIN pretrig: 100 k ☐ Data ok ☐ Junk
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