

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

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

Date: 22/01/29
yy mm dd

Initials: SGD

Continuation of Configuration:

CALIBRATION

Recalibrate setting #1 when HMS angle

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

Run Number: <u>14570</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>6</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>19:49:50</u> Stop time (RC GUI): <u>19:52:16</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi\pi$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi\pi$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
Comments: <u>FTAC MODE 10 run</u>							

Run Number: <u>14571</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>6</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>19:57:18</u> Stop time (RC GUI): <u>19:58:30</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>28</u> k $e-\pi\pi$ evts: <u>10650</u>	SHMS prescale pretrig: <u>24</u> k $\Sigma e-\pi\pi$ evts: <u>21375</u>	COIN pretrig: <u>47</u> k ☒ Data ok ☐ Junk
Comments: <u>21375</u>							

Run Number: <u>14572</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>6</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>19:59:11</u> Stop time (RC GUI): <u>20:59:21</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>326</u> k $e-\pi\pi$ evts: <u>250735</u>	SHMS prescale pretrig: <u>277</u> k $\Sigma e-\pi\pi$ evts: <u>272110</u>	COIN pretrig: <u>552</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: <u>14573</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>6</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>21:07:47</u> Stop time (RC GUI): <u>21:09:53</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi\pi$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi\pi$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☒ Junk
Comments: <u>2min run, changed the prescales (rate too low) during the run</u>							

Run Number: <u>14574</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>5</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>21:11:29</u> Stop time (RC GUI): <u>21:29:53</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>36</u> k $e-\pi\pi$ evts: <u>115</u>	SHMS prescale pretrig: <u>40</u> k $\Sigma e-\pi\pi$ evts: <u>115</u>	COIN pretrig: <u>14</u> k ☒ Data ok ☐ Junk
Comments:							

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

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

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

Date: 23/01/30
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____

Calibration
H(e, ep) #2

E_{beam} : 7.913 GeV

I_{beam} : 70 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle
on target:

3H07A	X	Y
-0.6	mm	-0.3
Nomin:		Nomin:
3H07C	X	Y
-1.0	mm	-0.5
Nomin:		Nomin:

HMS

p : $\pm$ 19.880 $\theta(\text{TV})$: 19.880
From GUI Nearest 0.005

SHMS

p : $\pm$ 31.120 $\theta(\text{TV})$: 31.105
From GUI Nearest 0.005

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

Q1	I-SET (from PSU) B-HALL <u>677.83</u> A <u>+0.90140</u> T	I-SET (from PSU) B-HALL <u>1158.40</u> A <u>-7.337</u> KG	HB
Q2	I-SET (from PSU) B-HALL <u>540.31</u> A <u>+1.05440</u> T	I-SET (from PSU) B-HALL <u>733.12</u> A <u>+5.233</u> KG	Q1
Q3	I-SET (from PSU) B-HALL <u>262.10</u> A <u>+0.52487</u> T	I-SET (from PSU) B-HALL <u>1232.00</u> A <u>-11.627</u> KG	Q2
D	I-READ B-NMR <u>1622.85</u> A <u>+1.42557</u> T	I-SET (from PSU) B-HALL <u>810.40</u> A <u>-7.883</u> KG	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) B-NMR <u>1114.24</u> A <u>+8.087</u> KG	D

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

Comments:

This page is blank as shift workers did not fill in one to start

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

Comments:

Actual Runs on next page

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

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

Comments:

p(e,e' π)n Run Sheet

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

Date: 22 / 01 / 29
yy mm dd

Initials: Sdc

Continuation of Configuration:

CALIBRATION

ple, e'p1 nothing #2

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

Run Number: <u>14576</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>6</u> PS2: <u>4</u> PS3: <u>4</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>9</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:06:14</u> Stop time (RC GUI): <u>22:08:26</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
Comments: <u>fadc mode 10</u>							

Run Number: <u>14577</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>6</u> PS2: <u>4</u> PS3: <u>4</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>9</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:09:10</u> Stop time (RC GUI): <u>22:23:42</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>15</u> k $e-\pi n$ evts: <u>3836</u>	SHMS prescale pretrig: <u>20</u> k $\Sigma e-\pi n$ evts: <u>3836</u>	COIN pretrig: <u>17</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: <u>14578</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>6</u> PS2: <u>4</u> PS3: <u>4</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>9</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:28:04</u> Stop time (RC GUI): <u>23:01:58</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>92</u> k $e-\pi n$ evts: <u>23544</u>	SHMS prescale pretrig: <u>119</u> k $\Sigma e-\pi n$ evts: <u>27380</u>	COIN pretrig: <u>70</u> k ☒ Data ok ☐ Junk
Comments: <u>25 min beam @ 70 nA -> 23k COIN -> need 9 min of 100% beam @ 70 nA to get some 80k COIN</u>							

Run Number: <u>14579</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>6</u> PS2: <u>4</u> PS3: <u>4</u> PS4: <u>5</u> PS5: <u>0</u> PS6: <u>9</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:02:35</u> Stop time (RC GUI): <u>00:17:05</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>245</u> k $e-\pi n$ evts: <u>62704</u>	SHMS prescale pretrig: <u>320</u> k $\Sigma e-\pi n$ evts: <u>90084</u>	COIN pretrig: <u>178</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: <u>14580</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>6</u> PS2: _____ PS3: _____ PS4: <u>5</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>00:29</u> Stop time (RC GUI): <u>00:41</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>10</u> k $e-\pi n$ evts: <u>28</u>	SHMS prescale pretrig: <u>21</u> k $\Sigma e-\pi n$ evts: _____	COIN pretrig: <u>10</u> k ☒ Data ok ☐ Junk
Comments:							

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

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

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

Date: 22/01/30
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name:

Calib, Hlep) Coin
Setting #13

Purpose:

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

E_{beam} : 7.9 GeV

I_{beam} : 70 μA

Raster: ☒ On ☐ Off
Size: 2x2

HMS

p: +/- 25.260 θ (TV): 25.260
From GUI Nearest 0.005

SHMS

p: +/- 25.280 θ (TV): 25.260
From GUI Nearest 0.005

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

Beam position and angle on target:

3H07A	X	Y
-0.6 mm		-0.4 mm
Nomin:		Nomin:
3H07C	X	Y
-1.0 mm		-0.5 mm
Nomin:		Nomin:

Q1	I-SET (from PSU) 571.70 A B-HALL 0.75970 T	I-SET (from PSU) 1460.05 A B-HALL -9.255 KG	HB
Q2	I-SET (from PSU) 454.60 A B-HALL -0.98054 T	I-SET (from PSU) 921.12 A B-HALL 6.572 KG	Q1
Q3	I-SET (from PSU) 221.06 A B-HALL 0.44201 T	I-SET (from PSU) 1547.32 A B-HALL -14.638 KG	Q2
D	I-READ 1348.44 A B-NMR 1.20173 T	I-SET (from PSU) 1017.84 A B-HALL -9.944 KG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) 1399.84 A B-NMR 10.138 KG	D

Run Number:

14582

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

PS1: 3
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

1:03:40

Stop time (RC GUI):

1:20:08

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

HMS prescale
pretrig: 34 k

$e-\pi n$ evts:

7

SHMS prescale
pretrig: 158 k

$\Sigma e-\pi n$ evts:

COIN
pretrig: 10 k

☒ Data ok

☐ Junk

Comments:

Run Number:

14583

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

PS1: 6
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

1:29:19

Stop time (RC GUI):

1:31:30

- ☒ 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:

FADC Mode 10

Run Number:

14584

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

PS1: 6
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

1:32:08

Stop time (RC GUI):

2:02:18

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

HMS prescale
pretrig: 234 k

$e-\pi n$ evts:

6195

SHMS prescale
pretrig: 197 k

$\Sigma e-\pi n$ evts:

6195

COIN
pretrig: 31 k

☒ Data ok

☐ Junk

Comments:

~4 min beam off
should expect to run for 3 hours this setting

Run Number:

14585

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

PS1: 6
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

2:02:40

Stop time (RC GUI):

3:02:23

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

HMS prescale
pretrig: 405 k

$e-\pi n$ evts:

10490

SHMS prescale
pretrig: 338 k

$\Sigma e-\pi n$ evts:

16685

COIN
pretrig: 58 k

☒ Data ok

☐ Junk

Comments:

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

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

Date: 22/01/30
yy mm dd

Initials: NH

Continuation of Configuration:

Calib Bleep Coin
Setting #3

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

Run Number: <u>14586</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>6</u> PS2: _____ PS3: _____ PS4: <u>0</u> PS5: <u>0</u> PS6: _____ Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:02:59</u> Stop time (RC GUI): <u>4:02:09</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>433</u> k $e-\pi n$ evts: <u>11535</u>	SHMS prescale pretrig: <u>363</u> k $\Sigma e-\pi n$ evts: <u>28220</u>	COIN pretrig: <u>60</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: <u>14587</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>6</u> PS2: _____ PS3: _____ PS4: <u>8</u> PS5: <u>8</u> PS6: _____ Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:02:44</u> Stop time (RC GUI): <u>5:02:13</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>471</u> k $e-\pi n$ evts: <u>12693</u>	SHMS prescale pretrig: <u>396</u> k $\Sigma e-\pi n$ evts: <u>40913</u>	COIN pretrig: <u>62</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: <u>cer</u> / 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:							

Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: <u>cer</u> / 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:							

Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: <u>cer</u> / 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:							

Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: <u>cer</u> / 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:							

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

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

Date: 22/01/30
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: _____

Calib Heep Coin
Setting #4

E_{beam} : _____ GeV

I_{beam} : _____ μA

Purpose:

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

Raster: ☒ On ☐ Off

Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-0.5</u> mm		<u>-0.2</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-1.0</u> mm		<u>-0.4</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>42778</u> A B-HALL <u>0.5420</u> T	I-SET (from PSU) <u>184575</u> A B-HALL <u>-11.738</u> KG	HB
Q2	I-SET (from PSU) <u>340.04</u> A B-HALL <u>-0.65100</u> T	I-SET (from PSU) <u>1157.00</u> A B-HALL <u>8.237</u> KG	Q1
Q3	I-SET (from PSU) <u>165.26</u> A B-HALL <u>+0.33032</u> T	I-SET (from PSU) <u>1443.52</u> A B-HALL <u>-18.309</u> KG	Q2
D	I-READ <u>1004.91</u> A B-NMR <u>+0.89910</u> T	I-SET (from PSU) <u>1278.64</u> A B-HALL <u>-12.412</u> KG	Q3
	If momentum increased: ☒ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) <u>1758.20</u> A B-NMR <u>12.744</u> KG	D

Run Number:

14589

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

PS1: 7
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: _____

Start time (RC GUI):

5:29:07

Stop time (RC GUI):

5:31:14

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

HMS
prescale
pretrig:

SHMS
prescale
pretrig:

COIN
pretrig:

$e-\pi\eta$ evts:

$\Sigma e-\pi\eta$ evts:

- ☐ Data ok
☐ Junk

Comments:

8 ADC mode 10

Run Number:

14590

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

PS1: 7
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: _____

Start time (RC GUI):

5:31:53

Stop time (RC GUI):

6:02:26

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

HMS
prescale
pretrig:

SHMS
prescale
pretrig:

COIN
pretrig:

$e-\pi\eta$ evts:

$\Sigma e-\pi\eta$ evts:

- ☒ Data ok
☐ Junk

Comments:

Run Number:

14591

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

PS1: 7
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: _____

Start time (RC GUI):

6:03:04

Stop time (RC GUI):

6:14

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

HMS
prescale
pretrig:

SHMS
prescale
pretrig:

COIN
pretrig:

$e-\pi\eta$ evts:

$\Sigma e-\pi\eta$ evts:

- ☐ Data ok
☒ Junk

Comments:

starts w/ beam down Ends w/ beam down

Run Number:

14592

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

PS1: 7
PS2: _____
PS3: _____
PS4: 0
PS5: 0
PS6: _____

Start time (RC GUI):

6:34:10

Stop time (RC GUI):

7:34:23

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

HMS
prescale
pretrig:

SHMS
prescale
pretrig:

COIN
pretrig:

$e-\pi\eta$ evts:

$\Sigma e-\pi\eta$ evts:

- ☒ Data ok
☐ Junk

Comments:

p(e,e' π)n Run Sheet

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

Date: 22/01/30
yy mm dd

Initials: NY
SCA

Continuation of Configuration:

Calib Heep Coin
Setting #4

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

Run Number: 14593	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 7:35:00 Stop time (RC GUI): 8:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 96 k pretrig: $e-\pi n$ evts: 2197	SHMS prescale 399 k pretrig: $\Sigma e-\pi n$ evts: 4923	COIN pretrig: 41 k ☒ Data ok ☐ Junk
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Run Number: 14594	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 8:36 Stop time (RC GUI): 9:36	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 82 k pretrig: $e-\pi n$ evts: 1639	SHMS prescale 304 k pretrig: $\Sigma e-\pi n$ evts: 6562	COIN pretrig: 39 k ☒ Data ok ☐ Junk
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Run Number: 14595	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 9:37 Stop time (RC GUI): 10:37	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 69 k pretrig: $e-\pi n$ evts: 1228	SHMS prescale 223 k pretrig: $\Sigma e-\pi n$ evts: 7790	COIN pretrig: 39 k ☒ Data ok ☐ Junk
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Last 20min has no beam.

Run Number: 14596	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 10:37 Stop time (RC GUI): 13:00	☒ 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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Starts with "no" beam and ends with "no" beam

Run Number: 14597	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 13:05 Stop time (RC GUI): 14:02	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 61 k pretrig: $e-\pi n$ evts: 998	SHMS prescale 181 k pretrig: $\Sigma e-\pi n$ evts: 8788	COIN pretrig: 36 k ☒ Data ok ☐ Junk
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Last 20min has no beam, too many trips

Run Number: 14598	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 15:09 Stop time (RC GUI): 16:20:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 90 k pretrig: $e-\pi n$ evts: 1985	SHMS prescale 260 k pretrig: $\Sigma e-\pi n$ evts: 10773	COIN pretrig: 41 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, 01, 30
yy mm dd

Initials: SCA

Continuation of Configuration:

Calibration Keep Coin.

Setting # 4

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

Run Number: 14599	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>7</u> PS2: <u>7</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>7</u> Mode10: cer / fadc	Start time (RC GUI): 16:10:39 Stop time (RC GUI): 16:41:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 47 k $e-\pi n$ evts: 1084	SHMS prescale pretrig: 132 k $\Sigma e-\pi n$ evts: 11857	COIN pretrig: 21 k ☒ Data ok ☐ Junk
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Run Number: 14600	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>7</u> PS2: <u>7</u> PS3: <u>7</u> PS4: <u>0</u> PS5: <u>6</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 16:50:40 Stop time (RC GUI): 17:07:04	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 15 k $e-\pi n$ evts: 0	SHMS prescale pretrig: 18 k $\Sigma e-\pi n$ evts:	COIN pretrig: 10 k ☐ Data ok ☐ Junk
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only 33.7k events (did not run 50k replay)

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

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

Date: 22/01/30
yy mm dd

Initials: SCB

Use a separate sheet for each configuration.

Configuration Name: FAHC DT #1

p(e,e' π)n COIN FAHC DT

STUDY # 1 $Q^2=1.6, W=J.08$
 $E=0.56, CENTER$

E_{beam} : 7.914 GeV

I_{beam} : 65-15 μ A

Purpose:

☒ Production

☐ Test (e.g. DAQ, Detector)

☐ Optics (SHMS / HMS)

☐ Other: _____

Raster: ☒ On ☐ Off

Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-0.6</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-1.0</u> mm		<u>-0.45</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>3925.11</u> A B-HALL <u>0.43270</u> T	I-SET (from PSU) <u>1812.8</u> A B-HALL <u>-11.462</u> kg	HB
Q2	I-SET (from PSU) <u>258.73</u> A B-HALL <u>-0.48337</u> T	I-SET (from PSU) <u>1138.7</u> A B-HALL <u>8.115</u> kg	Q1
Q3	I-SET (from PSU) <u>125.35</u> A B-HALL <u>0.25032</u> T	I-SET (from PSU) <u>1911.8</u> A B-HALL <u>-18.064</u> kg	Q2
D	I-READ <u>768.09</u> A B-NMR <u>0.685889</u> T	I-SET (from PSU) <u>1259.1</u> A B-HALL <u>-12.167</u> kg	Q3
	If momentum increased: ☒ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) <u>1729.0</u> A B-NMR <u>12.511</u> kg	D

Run Number:

14601

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

PS1: 14
PS2: -1
PS3: -1
PS4: 10
PS5: 0
PS6: -1
Mode10: cer/fadc

Start time (RC GUI):

19:09:19

Stop time (RC GUI):

19:52:09

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 214 k

$e-\pi n$ evts:

16611

SHMS prescale
pretrig: 159 k

$\Sigma e-\pi n$ evts:

16611

COIN pretrig: 4591 k

☐ Data ok

☐ Junk

Comments:

36 min @ 100%, 65 μ A, HMS $\rightarrow$ NMR locked @ beginning of run, then after ~15 min it started drifting

Run Number:

14602

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

PS1: 14
PS2: -1
PS3: -1
PS4: 10
PS5: 0
PS6: -1
Mode10: cer/fadc

Start time (RC GUI):

19:54:11

Stop time (RC GUI):

21:08:06

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 257 k

$e-\pi n$ evts:

20703

SHMS prescale
pretrig: 185 k

$\Sigma e-\pi n$ evts:

COIN pretrig: 4399 k

☒ Data ok

☐ Junk

Comments:

52 μ A, 48 min @ 100%, 4.7 M events

Run Number:

14603

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

PS1: 14
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer/fadc

Start time (RC GUI):

21:09:50

Stop time (RC GUI):

22:19:31

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 441 k

$e-\pi n$ evts:

18930

SHMS prescale
pretrig: 154 k

$\Sigma e-\pi n$ evts:

COIN pretrig: 2828 k

☒ Data ok

☐ Junk

Comments:

40 μ A, 60 min @ 100%, 3.4 M events

Run Number:

14604

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer/fadc

Start time (RC GUI):

22:21:39

Stop time (RC GUI):

00:02:00

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 428 k

$e-\pi n$ evts:

19546

SHMS prescale
pretrig: 287 k

$\Sigma e-\pi n$ evts:

COIN pretrig: 1861 k

☒ Data ok

☐ Junk

Comments:

27 μ A, 90 min @ 100%

p(e,e' π)n Run Sheet

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

Date: 22/01/31
yy mm dd

Initials: NH

Continuation of Configuration:

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

FADL deadtime
study #1

Run Number: 14605	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: _____ PS3: _____ PS4: 8 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 00:04:16 Stop time (RC GUI): 1:04:54	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 271 k $e-\pi n$ evts: 6533	SHMS prescale pretrig: 176 k $\Sigma e-\pi n$ evts: 6533	COIN pretrig: 362 k ☒ Data ok ☐ Junk
Comments: 15 μ A							

Run Number: 14606	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: _____ PS3: _____ PS4: 8 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 1:05:34 Stop time (RC GUI): 2:07:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 272 k $e-\pi n$ evts: 6512	SHMS prescale pretrig: 176 k $\Sigma e-\pi n$ evts: 13045	COIN pretrig: 365 k ☒ Data ok ☐ Junk
Comments: 15 μ A							

Run Number: 14607	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: _____ PS3: 9 PS4: _____ PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 2:08:58 Stop time (RC GUI): 2:42:53	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 272 k $e-\pi n$ evts: 6512 4187	SHMS prescale pretrig: 115 k $\Sigma e-\pi n$ evts: 17222	COIN pretrig: 365 k ☒ Data ok ☐ Junk
Comments: 3/4 Run							

Run Number: 14609	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: _____ PS3: _____ PS4: 8 PS5: 0 PS6: 8 Mode10: cer / fadc	Start time (RC GUI): _____ Stop time (RC GUI): _____ Prescale wrong!	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 30 k $e-\pi n$ evts: 128	SHMS prescale pretrig: 50 k $\Sigma e-\pi n$ evts: _____ Data ok ☒ Junk	COIN pretrig: 454 k
Comments: Prescale wrong!							

Run Number: 14610	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: _____ PS3: _____ PS4: 8 PS5: 0 PS6: 8 Mode10: cer / fadc	Start time (RC GUI): 2:53:55 Stop time (RC GUI): 2:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 30 k $e-\pi n$ evts: 128	SHMS prescale pretrig: 50 k $\Sigma e-\pi n$ evts: _____ Data ok ☒ Junk	COIN pretrig: 454 k
Comments: 40 μ A Edtm Rate set @ 1300 Hz! (otherwise okay)							

Run Number: 14611	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: _____ PS3: _____ PS4: 8 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 3:01 Stop time (RC GUI): 3:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 81 k $e-\pi n$ evts: 348	SHMS prescale pretrig: 150 k $\Sigma e-\pi n$ evts: _____ Data ok ☐ Junk	COIN pretrig: 74 k
Comments: 40 μ A							

p(e,e' π)n Run Sheet

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

Date: 22/01/31
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: _____

FADC deadtime
study #2

E_{beam}: 7.0 GeV

I_{beam}: Variable μ A

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
-0.6 mm		-0.3 mm
Nomin:		Nomin:
3H07C	X	Y
-1.0 mm		-0.45 mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) 325.43 A B-HALL 0.43460 T	I-SET (from PSU) 1814.55 A B-HALL -11.463 KG	HB
Q2	I-SET (from PSU) 258.68 A B-HALL -0.48600 T	I-SET (from PSU) 1138.16 A B-HALL 8.115 KG	Q1
Q3	I-SET (from PSU) 125.86 A B-HALL 0.24949 T	I-SET (from PSU) 1911.76 A B-HALL -18.064 KG	Q2
D	I-READ 763.98 A B-NMR 0.68390 T	I-SET (from PSU) 1253.84 A B-HALL -11.166 KG	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) 1729.72 A B-NMR 12.504 KG	D

Run Number:

14612

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

PS1: 10
PS2: _____
PS3: _____
PS4: 8
PS5: 0
PS6: _____
Mode10: 60 / fadc

Start time (RC GUI):

3:24:33

Stop time (RC GUI):

3:43:30

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

HMS prescale
pretrig: 87 k

e- π n evts:
186233

SHMS prescale
pretrig: 71 k

Σ e- π n evts:
/

COIN
pretrig: 46 k

- ☒ Data ok
☐ Junk

Comments:

40 μ A

Run Number:

14613

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

PS1: 13
PS2: _____
PS3: _____
PS4: 10
PS5: 0
PS6: _____
Mode10: 60 / fadc

Start time (RC GUI):

3:51:17

Stop time (RC GUI):

4:30:28

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

HMS prescale
pretrig: 193 k

e- π n evts:
8424
12231

SHMS prescale
pretrig: 147 k

Σ e- π n evts:
12231

COIN
pretrig: 2386 k

- ☒ Data ok
☐ Junk

Comments:

70 μ A

Run Number:

14614

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

PS1: 13
PS2: _____
PS3: _____
PS4: 10
PS5: 0
PS6: _____
Mode10: 60 / fadc

Start time (RC GUI):

4:31:38

Stop time (RC GUI):

5:26:01

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

HMS prescale
pretrig: k

e- π n evts:
8305

SHMS prescale
pretrig: k

Σ e- π n evts:
8305

COIN
pretrig: k

- ☒ Data ok
☐ Junk

Comments:

56 μ A, ended w/ long beam down (~38 min of beam)

Run Number:

14615

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

PS1: 12
PS2: _____
PS3: _____
PS4: 10
PS5: 0
PS6: _____
Mode10: 60 / fadc

Start time (RC GUI):

5:57:54

Stop time (RC GUI):

6:20:25

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

HMS prescale
pretrig: 99 k

e- π n evts:
5298

SHMS prescale
pretrig: 117 k

Σ e- π n evts:
13603

COIN
pretrig: 778 k

- ☒ Data ok
☐ Junk

Comments:

56 μ A

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

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

Date: 22/01/31
yy mm dd

Initials: NH

Continuation of Configuration:

FADC deadline

Study #2

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

Run Number: 14616	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: _____ PS3: _____ PS4: 10 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 6:23:21 Stop time (RC GUI): 7:25:24	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 210 k pretrig: _____ $e-\pi n$ evts: 11481	SHMS prescale 243 k pretrig: _____ $\Sigma e-\pi n$ evts: 11481	COIN pretrig: 1296 k ☒ Data ok ☐ Junk
Comments: 43 μA							

Run Number: 14617	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 12 PS2: _____ PS3: _____ PS4: 9 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 7:34:31 Stop time (RC GUI): 8:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 270 k pretrig: _____ $e-\pi n$ evts: 7753	SHMS prescale 304 k pretrig: _____ $\Sigma e-\pi n$ evts: 7753	COIN pretrig: 598 k ☒ Data ok ☐ Junk
Comments: 29 μA							

Run Number: 14618	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 11 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 11:08 Stop time (RC GUI): 11:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 119 k pretrig: _____ $e-\pi n$ evts: 3473	SHMS prescale 135 k pretrig: _____ $\Sigma e-\pi n$ evts: 11226	COIN pretrig: 281 k ☒ Data ok ☐ Junk
Comments: 29 μA , last 20 min without beam.							

Run Number: 14619	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 11 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 12:16 Stop time (RC GUI): 12:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 223 k pretrig: 2119 $e-\pi n$ evts: 6398	SHMS prescale 252 k pretrig: 135 $\Sigma e-\pi n$ evts: 17624	COIN pretrig: 494 k pretrig: 281 ☒ Data ok ☐ Junk
Comments: 29 μA							

Run Number: 14620	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 11 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 13:01 Stop time (RC GUI): 14:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 300 k pretrig: _____ $e-\pi n$ evts: 4521	SHMS prescale 166 k pretrig: _____ $\Sigma e-\pi n$ evts: 4521	COIN pretrig: 217 k ☒ Data ok ☐ Junk
Comments: 15 μA							

Run Number: 14621	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 11 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 14:00 Stop time (RC GUI): 14:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 293 k pretrig: _____ $e-\pi n$ evts: 4445	SHMS prescale 162 k pretrig: _____ $\Sigma e-\pi n$ evts: 8966	COIN pretrig: 213 k ☒ Data ok ☐ Junk
Comments: 15 μA							

p(e,e' π)n Run Sheet

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

Date: 22/01/31
yy mm dd

Initials: DA

Continuation of Configuration:

FADC deadline Study
#2

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

Run Number: 14622	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 15:00 Stop time (RC GUI): 15:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 277 k $e-\pi n$ evts: 4169	SHMS prescale pretrig: 153 k $\Sigma e-\pi n$ evts: 13135	COIN pretrig: 203 k ☒ Data ok ☐ Junk
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15 μ A

Run Number: 14623	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:00 Stop time (RC GUI): 17:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 314 k $e-\pi n$ evts: 4756	SHMS prescale pretrig: 173 k $\Sigma e-\pi n$ evts: 17891	COIN pretrig: 230 k ☒ Data ok ☐ Junk
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15 μ A

Run Number: 14624	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 7 PS4: 10 PS5: 0 PS6: 7 Mode10: cer / fadc	Start time (RC GUI): 17:11 Stop time (RC GUI): 17:44	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 169 k $e-\pi n$ evts: 8555	SHMS prescale pretrig: 102 k $\Sigma e-\pi n$ evts: 20786	COIN pretrig: 1075 k ☒ Data ok ☐ Junk
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70 μ A

(From Run 14613)

Run Number: 14625	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: 7 PS4: 10 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:46 Stop time (RC GUI): 18:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 132 k $e-\pi n$ evts: 6899	SHMS prescale pretrig: 156 k $\Sigma e-\pi n$ evts: 20502	COIN pretrig: 1055 k ☒ Data ok ☐ Junk
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56 μ A

(From Run 14615)

Run Number: 14626	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: 7 PS4: 10 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:14 Stop time (RC GUI): 18:51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 137 k $e-\pi n$ evts: 7388	SHMS prescale pretrig: 158 k $\Sigma e-\pi n$ evts: 18869	COIN pretrig: 847 k ☒ Data ok ☐ Junk
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43 μ A

(From Run 14616)

Run Number: 14627	☒ 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): 18:59 Stop time (RC GUI): 19:48	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS 213/610 k prescale pretrig: $e-\pi n$ evts: 2554	SHMS prescale pretrig: 91 k $\Sigma e-\pi n$ evts: 2554	COIN pretrig: 131 k ☒ Data ok ☐ Junk
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15 μ A

3/4 HMS Trigger Run