

$\theta^2 = 6.0$ LEFT SAMS DUMMY TGT RUNS

Run#	Minutes	Σ Minutes	π -Euts	$\Sigma \pi$ -Euts
12273	~1 hour	60	0	0
12291	~1 hour	120	0	0
12304	61 min	181	2	2
12325	62 min	243	2	4
12346	61 min	304	1	5
12418	60 min	364	3	8
12419	30 min	394	1	9
12420	60 min	454	3	12
12421	60 min	514	4	16
12423	60 min	574	1	17
12424	30 min	604	1	18

1065 mc
 $\uparrow$
 exd
 12273

HMS-3/4 Trigger Runs (for checking ELREAL threshold)

- 12305 (PS3 only)
- 12330 (PS3, PS6)
- 12348 (PS3, PS6)
- 12350 (PS3, PS6)
- 12362 (PS3, PS6)
- 12363 (PS3, PS6)
- ~~12373/12374 only~~
- 12374-5 (PS6 only)
- 12430 (PS3, PS6)

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

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

Date: 21/09/20
yy mm dd

Initials: CAM

Use a separate sheet for each configuration.

Configuration Name: Left

Low-E Data taking

$Q^2=6$, $W=3.19$, $x=0.39$

E_{beam}: 9.173 GeV

I_{beam}: 70 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
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>133.41</u> A B-HALL <u>0.17746</u> T	I-SET (from PSU) <u>2748.52</u> A B-HALL <u>-17.465</u> kG	HB
Q2	I-SET (from PSU) <u>105.89</u> A B-HALL <u>-0.17277</u> T	I-SET (from PSU) <u>1696.77</u> A B-HALL <u>12.026</u> kG	Q1
Q3	I-SET (from PSU) <u>51.51</u> A B-HALL <u>0.09983</u> T	I-SET (from PSU) <u>2833.8</u> A B-HALL <u>-26.706</u> kG	Q2
D	I-READ <u>311.86</u> A B-NMR <u>0.28085</u> T	I-SET (from PSU) <u>1864.61</u> A B-HALL <u>-17.987</u> kG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>2563.65</u> A B-NMR <u>18.565</u> kG	D

Run Number:

12261

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: -9
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

01-44

Stop time (RC GUI):

01-47

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS prescale
pretrig: _____ k

e- π n evts:

SHMS prescale
pretrig: _____ k

Σ e- π n evts:

COIN
pretrig: _____ k

- ☐ Data ok
☒ Junk

Comments:

Junk Run

Run Number:

12262

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

01-51

Stop time (RC GUI):

02-54

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 166 k

e- π n evts:

53

SHMS prescale
pretrig: 191 k

Σ e- π n evts:

53

COIN
pretrig: 63 k

- ☒ Data ok
☐ Junk

Comments:

70 μ A

Run Number:

12263

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

02-55

Stop time (RC GUI):

03-02

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 16 k

e- π n evts:

11

SHMS prescale
pretrig: 20 k

Σ e- π n evts:

64

COIN
pretrig: 16 k

- ☒ Data ok
☐ Junk

Comments:

70 μ A

Run Number:

12264

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

03-13

Stop time (RC GUI):

03-17

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS prescale
pretrig: 16 k

e- π n evts:

04

SHMS prescale
pretrig: 21 k

Σ e- π n evts:

68

COIN
pretrig: 15 k

- ☒ Data ok
☐ Junk

Comments:

70 μ A

p(e,e' π)n Run Sheet

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

Date: 21/9/20
yy mm dd

Initials: DG

Continuation of Configuration:

Low Σ , $Q^2 = 6$
 $W = 3.19$ $x = 0.59$

Left SHMS
7.06°

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

Run Number: 12265	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03-21 Stop time (RC GUI): 03-26	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 18 k $e-\pi n$ evts: 03	SHMS prescale pretrig: 24 k $\Sigma e-\pi n$ evts: 71	COIN pretrig: 17 k ☒ Data ok ☐ Junk
Comments: 70 μA							

Run Number: 12266	☒ 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: cer / fadc	Start time (RC GUI): 03-35 Stop time (RC GUI): 04-07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 124 k $e-\pi n$ evts: 17	SHMS prescale pretrig: 129 k $\Sigma e-\pi n$ evts: 88	COIN pretrig: 42 k ☒ Data ok ☐ Junk
Comments: 40 μA							

Run Number: 12267	☒ 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: cer / fadc	Start time (RC GUI): 04-09 Stop time (RC GUI): 04-45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 166 k $e-\pi n$ evts: 18	SHMS prescale pretrig: 191 k $\Sigma e-\pi n$ evts: 106	COIN pretrig: 63 k ☒ Data ok ☐ Junk
Comments: 50 μA							

Run Number: 12268	☒ 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: cer / fadc	Start time (RC GUI): 04-47 Stop time (RC GUI): 04-49	☒ 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 Mod 10 Run (50 μA)							

Run Number: 12269	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 0.5 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04-58 Stop time (RC GUI): 05-14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 94 k $e-\pi n$ evts: 15	SHMS prescale pretrig: 109 k $\Sigma e-\pi n$ evts: 121	COIN pretrig: 38 k ☒ Data ok ☐ Junk
Comments: (50 μA)							

Run Number: 12270	☐ 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: check raster size							

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

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

Date: 21/7/20
yy mm dd

Initials: DE

Continuation of Configuration:

low $\alpha^0 = 6$ ~~rest~~

Left (SHMS 7.06)

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

W=3.9 x=0.39

Run Number: <u>12271</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics <u>cm</u> ☒ <u>Note</u>	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 <u> </u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale <u> </u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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raster size check

Run Number: <u>12272</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics <u>cm</u> ☒ <u>Note</u>	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 <u> </u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale <u> </u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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raster size check

Run Number: <u>12273</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics <u>cm</u>	PS1: <u>2800</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>10:53</u> Stop time (RC GUI): <u>11:55</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>112</u> k pretrig: _____ $e-\pi n$ evts: <u>0</u>	SHMS prescale <u>3</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: <u>40</u> k ☒ Data ok ☐ Junk
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run 1274 dub file is 1731GB

is short, junk (w LH2) want to adjust ps1, ps3

Run Number: <u>12275</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics <u>cm</u>	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>12:07</u> Stop time (RC GUI): <u>13:18</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>185</u> k pretrig: <u>220</u> $e-\pi n$ evts: <u>67</u>	SHMS prescale <u>271</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>188</u>	COIN pretrig: <u>180</u> k ☒ Data ok ☐ Junk
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Run Number: <u>12276</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics <u>cm</u>	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>13:18</u> Stop time (RC GUI): <u>14:17</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>164</u> k pretrig: _____ $e-\pi n$ evts: <u>43</u>	SHMS prescale <u>203</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>231</u>	COIN pretrig: <u>139</u> k ☒ Data ok ☐ Junk
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Run Number: <u>12277</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics <u>cm</u>	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>14:17</u> Stop time (RC GUI): <u>14:32</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>41</u> k pretrig: _____ $e-\pi n$ evts: <u>9</u>	SHMS prescale <u>50</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>240</u>	COIN pretrig: <u>34</u> k ☒ Data ok ☐ Junk
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stopped to do energy measurement

p(e,e' π)n Run Sheet

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

Date: 21/9/20
yy mm dd

Initials: RE

Continuation of Configuration:

Low E_q $Q^2 = 6.0$ left
 $W = 3.19$, $z_c = 0.39$, ~~1.0~~

SHMS 7.06

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

Run Number: <u>12278</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>21:43</u> Stop time (RC GUI): <u>22:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>194</u> k SHMS prescale <u>264</u> k $e-\pi n$ evts: <u>55</u> $\Sigma e-\pi n$ evts: <u>295</u>	COIN pretrig: <u>192</u> k ☒ Data ok ☐ Junk
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Run Number: <u>12279</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:43</u> Stop time (RC GUI): <u>23:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>42</u> k SHMS prescale <u>57</u> k $e-\pi n$ evts: <u>14</u> $\Sigma e-\pi n$ evts: <u>309</u>	COIN pretrig: <u>46</u> k ☒ Data ok ☐ Junk
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Short run & beam tripped off ~ 5 minutes

Run Number: <u>12280</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:05</u> Stop time (RC GUI): <u>00:09</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>64</u> k SHMS prescale <u>316</u> k $e-\pi n$ evts: <u>50</u> $\Sigma e-\pi n$ evts: <u>359</u>	COIN pretrig: <u>46</u> k ☒ Data ok ☐ Junk
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FORGOT TO REGISTER PRESACLE VALUES

Run Number: <u>12281</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>00:09</u> Stop time (RC GUI): <u>01:15</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>64</u> k SHMS prescale <u>316</u> k $e-\pi n$ evts: <u>64</u> $\Sigma e-\pi n$ evts: <u>423</u>	COIN pretrig: <u>227</u> k ☒ Data ok ☐ Junk
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Run Number: <u>12282</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>01:16</u> Stop time (RC GUI): <u>02:24</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>64</u> k SHMS prescale <u>316</u> k $e-\pi n$ evts: <u>61</u> $\Sigma e-\pi n$ evts: <u>484</u>	COIN pretrig: <u>237</u> k ☒ Data ok ☐ Junk
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Run Number: <u>12283</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>02:25</u> Stop time (RC GUI): <u>03:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>98</u> k SHMS prescale <u>135</u> k $e-\pi n$ evts: <u>24</u> $\Sigma e-\pi n$ evts: <u>508</u>	COIN pretrig: <u>103</u> k ☒ Data ok ☐ Junk
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STOPPED DUE TO BEAM INCIDENT

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

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

Date: 21, 9, 2016
yy mm dd

Initials: FH/CA

Continuation of Configuration:

Low E_γ $Q^2 = 6.0$ GeV^2
 $W = 3.19$, $SC = 0.39$

SHMS = 7.06

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

Run Number: 12284	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:36 Stop time (RC GUI): 04:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 90 k pretrig: $e-\pi n$ evts: 28	SHMS prescale 122 k pretrig: $\Sigma e-\pi n$ evts: 536	COIN pretrig: 94 k ☒ Data ok ☐ Junk
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Stopped early because of beam off

Run Number: 12285	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:27 Stop time (RC GUI): 05:04	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 64 k pretrig: $e-\pi n$ evts: 19	SHMS prescale 86 k pretrig: $\Sigma e-\pi n$ evts: 555	COIN pretrig: 71 k ☒ Data ok ☐ Junk
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Last 10-15 min no beam

Run Number: 12286	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:24 Stop time (RC GUI): 06:43	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 381 k pretrig: $e-\pi n$ evts: 77	SHMS prescale 767 k pretrig: $\Sigma e-\pi n$ evts: 638	COIN pretrig: 268 k ☒ Data ok ☐ Junk
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SHMS calo pedestal off for 1 PMT

Run Number: 12287	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:44 Stop time (RC GUI): 06:58	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale 29 k pretrig: $e-\pi n$ evts: 1	SHMS prescale 30 k pretrig: $\Sigma e-\pi n$ evts: 633	COIN pretrig: k ☐ Data ok ☐ Junk
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TARGET PROBLEMS => BEAM OFF FOR US

Run Number: 12288	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:39:58 Stop time (RC GUI): 11:08:38	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 92 k pretrig: $e-\pi n$ evts: 21	SHMS prescale 128 k pretrig: $\Sigma e-\pi n$ evts: 654	COIN pretrig: 94 k ☒ Data ok ☐ Junk
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long beam down @ end

Run Number: 12289	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:15:53 Stop time (RC GUI): 12:29:51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 221 k pretrig: $e-\pi n$ evts: 58	SHMS prescale 311 k pretrig: $\Sigma e-\pi n$ evts: 710	COIN pretrig: 231 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: 21/09/21
yy mm dd

Initials: NH

Continuation of Configuration:

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

low E $Q^2 = 6.0$
 $W = 3.19$, $SC = 0.39$

Run Number: 12290	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fake	Start time (RC GUI): 12:30:43 Stop time (RC GUI): 13:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 231 k $e-\pi n$ evts: 62	SHMS prescale pretrig: 322 k $\Sigma e-\pi n$ evts: 772	COIN pretrig: 235 k ☒ Data ok ☐ Junk
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Comments: starts w/ some beam down

Run Number: 12291	☒ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 9 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fake	Start time (RC GUI): 13:55:06 Stop time (RC GUI): 14:55:38	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 211 k $e-\pi n$ evts: 0	SHMS prescale pretrig: 409 k $\Sigma e-\pi n$ evts:	COIN pretrig: 40 k ☒ Data ok ☐ Junk
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Comments: 10 cm Dummy!

Run Number: 12292	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fake	Start time (RC GUI): 15:04:26 Stop time (RC GUI): 16:00	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 262 k $e-\pi n$ evts: 62	SHMS prescale pretrig: 281 k $\Sigma e-\pi n$ evts: 834	COIN pretrig: 199 k ☒ Data ok ☐ Junk
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Comments: Ended a little early, beam tripped off

Run Number: 12293	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fake	Start time (RC GUI): 16:14 Stop time (RC GUI): 17:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 152 k $e-\pi n$ evts: 35	SHMS prescale pretrig: 210 k $\Sigma e-\pi n$ evts: 869	COIN pretrig: 158 k ☒ Data ok ☐ Junk
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Comments: Beam crappy during this run

Run Number: 12294	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fake	Start time (RC GUI): 17:14 Stop time (RC GUI): 18:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 236 k $e-\pi n$ evts: 55	SHMS prescale pretrig: 328 k $\Sigma e-\pi n$ evts: 924	COIN pretrig: 231 k ☒ Data ok ☐ Junk
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Comments:

Run Number: 12295	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fake	Start time (RC GUI): 18:25 Stop time (RC GUI): 19:23	☒ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 261 k $e-\pi n$ evts: 67	SHMS prescale pretrig: 279 k $\Sigma e-\pi n$ evts: 991	COIN pretrig: 198 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: 21 / 09 / 21
yy mm dd

Initials: SJK

Continuation of Configuration:

Low $\epsilon_q Q^2 = 6$

$W = 3.14$, $x = 0.39$, $Q^2 = 6$ SHMS 7.06

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

Run Number: 12296	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:24 Stop time (RC GUI): 19:57	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 25 k $e-\pi n$ evts: 25	SHMS prescale pretrig: 1016 k $\Sigma e-\pi n$ evts: 1016	COIN pretrig: 156 k ☒ Data ok ☐ Junk
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Ended early due to accelerator issues

Run Number: 12297	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:21 Stop time (RC GUI): 00:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 157 k $e-\pi n$ evts: 44	SHMS prescale pretrig: 221 k $\Sigma e-\pi n$ evts: 1060	COIN pretrig: 156 k ☒ Data ok ☐ Junk
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Last couple of events HMS QA interlocked and went off

Run Number: 12298	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:09 Stop time (RC GUI): 05:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 310 k $e-\pi n$ evts: 78	SHMS prescale pretrig: 437 k $\Sigma e-\pi n$ evts: 1138	COIN pretrig: 306 k ☒ Data ok ☐ Junk
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Run Number: 12299	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:35 Stop time (RC GUI): 06:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 192 k $e-\pi n$ evts: 52	SHMS prescale pretrig: 271 k $\Sigma e-\pi n$ evts: 1190	COIN pretrig: 194 k ☒ Data ok ☐ Junk
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Run Number: 12300	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:35 Stop time (RC GUI): 07:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 238 k $e-\pi n$ evts: 67	SHMS prescale pretrig: 336 k $\Sigma e-\pi n$ evts: 1257	COIN pretrig: 237 k ☒ Data ok ☐ Junk
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Run Number: 12301	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07:46 Stop time (RC GUI): 8:23:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 80 k $e-\pi n$ evts: 31	SHMS prescale pretrig: 113 k $\Sigma e-\pi n$ evts: 1288	COIN pretrig: 89 k ☒ Data ok ☐ Junk
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Ended w/ long beam down

p(e,e' π)n Run Sheet

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

Date: 21/09/22
yy mm dd

Initials: NH

Continuation of Configuration:

low E $Q^2 = 6$

$\omega = 3.14$ $x = 0.39$, left

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

Run Number: 12302	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:41:50 Stop time (RC GUI): 12:45:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 149 k $e-\pi n$ evts: 55	SHMS prescale pretrig: 208 k $\Sigma e-\pi n$ evts: 1343	COIN pretrig: 157 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12303	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:45:59 Stop time (RC GUI): 13:46:27	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 220 k $e-\pi n$ evts: 60	SHMS prescale pretrig: 309 k $\Sigma e-\pi n$ evts: 1403	COIN pretrig: 212 k ☒ Data ok ☒ Junk
Comments:							

DATA OK

Run Number: 12304	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:55:50 Stop time (RC GUI): 14:56:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 190 k $e-\pi n$ evts: 2	SHMS prescale pretrig: 187 k $\Sigma e-\pi n$ evts: 1405	COIN pretrig: 39 k ☒ Data ok ☐ Junk
Comments:							

Dummy Target run (40 μ A)

↑ shouldn't have been added [see run 12300]

Run Number: 12305	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:04:04 Stop time (RC GUI): 16:05:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 45	SHMS prescale pretrig: 213 k $\Sigma e-\pi n$ evts: 1450	COIN pretrig: 158 k ☐ Data ok ☐ Junk
Comments:							

3/4 Run, HMS rate negative incorrect reply

Run Number: 12306	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:06:12 Stop time (RC GUI): 17:07:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 214 k $e-\pi n$ evts: 59	SHMS prescale pretrig: 360 k $\Sigma e-\pi n$ evts: 1509	COIN pretrig: 207 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12307	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: -6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:08:42 Stop time (RC GUI): 17:10:43	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 8 k $e-\pi n$ evts: 4	SHMS prescale pretrig: 11 k $\Sigma e-\pi n$ evts: 	COIN pretrig: 7 k ☒ Data ok ☐ Junk
Comments:							

FADL run

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

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

Date: 21/09/22
yy mm dd

Initials: RLT

Continuation of Configuration:

low ξ $Q^2=6$

$W=3.14$ $x=0.39$, left

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

Run Number: 12308	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:11:40 Stop time (RC GUI): 17:28:39	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 45 k $e-\pi n$ evts: 8	SHMS prescale pretrig: 36 k $\Sigma e-\pi n$ evts: 1517	COIN pretrig: 10 k ☒ Data ok ☐ Junk
Comments: Em1 due to no beam							

Run Number: 12309 12309	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:46:54 Stop time (RC GUI): 18:48:12	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 206 k $e-\pi n$ evts: 53	SHMS prescale pretrig: 290 k $\Sigma e-\pi n$ evts: 1570	COIN pretrig: 201 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12310	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:48:54 Stop time (RC GUI): 19:29:54	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 125 k $e-\pi n$ evts: 43	SHMS prescale pretrig: 176 k $\Sigma e-\pi n$ evts: 1613	COIN pretrig: 125 k ☒ Data ok ☐ Junk
Comments: Q3 interlock							

Run Number: 12311	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:27:27 Stop time (RC GUI): 22:26:31	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 218 k $e-\pi n$ evts: 63	SHMS prescale pretrig: 310 k $\Sigma e-\pi n$ evts: 1676	COIN pretrig: 214 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12312	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:27:08 Stop time (RC GUI): 23:29:04	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 223 k $e-\pi n$ evts: 60	SHMS prescale pretrig: 317 k $\Sigma e-\pi n$ evts: 1736	COIN pretrig: 214 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12313	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:29:36 Stop time (RC GUI): 00:38:	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 243 k $e-\pi n$ evts: 75	SHMS prescale pretrig: 345 k $\Sigma e-\pi n$ evts: 1811	COIN pretrig: 240 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 2021/09/23
yy mm dd

Initials: CA

Continuation of Configuration:

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

low ϵ ; $Q^2=6$
 $W=3.14$ $x=0.39$ 1st

Run Number: 12314	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:39 Stop time (RC GUI): 01:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 227 k $e-\pi n$ evts: 68	SHMS prescale pretrig: 324 k $\Sigma e-\pi n$ evts: 1879	COIN pretrig: 230 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12315	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:53 Stop time (RC GUI): 02:01	☒ 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: no beam							

Run Number: 12316	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:13 Stop time (RC GUI): 03:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 157 k $e-\pi n$ evts: 53	SHMS prescale pretrig: 278 k $\Sigma e-\pi n$ evts: 1932	COIN pretrig: 200 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12317	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:22 Stop time (RC GUI): 03:48	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: /	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: /	COIN pretrig: k ☐ Data ok ☒ Junk
Comments: no beam							

Run Number: 12318	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:04 Stop time (RC GUI): 05:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 243 k $e-\pi n$ evts: 93	SHMS prescale pretrig: 344 k $\Sigma e-\pi n$ evts: 2025	COIN pretrig: 244 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12319	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:24 Stop time (RC GUI): 06:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 188 k $e-\pi n$ evts: 71	SHMS prescale pretrig: 261 k $\Sigma e-\pi n$ evts: 2096	COIN pretrig: 189 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 2021 / 09 / 24
yy mm dd

Initials: CAFH

Continuation of Configuration:

low ϵ , $Q^2 = 6$

$W = 3.14$ $x = 0.39$ e/f

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

Run Number: 12320	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:24 Stop time (RC GUI): 07:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretig: 208 k $e-\pi n$ evts: 67	SHMS prescale pretig: 295 k $\Sigma e-\pi n$ evts: 2163	COIN pretig: 209 k ☒ Data ok ☐ Junk
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Run Number: 12321	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07:32 Stop time (RC GUI): 8:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretig: 200 k $e-\pi n$ evts: 64	SHMS prescale pretig: 284 k $\Sigma e-\pi n$ evts: 2227	☒ Data ok ☐ Junk
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Run Number: 12322	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 08:33 Stop time (RC GUI): 09:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretig: 134 k $e-\pi n$ evts: 41	SHMS prescale pretig: 188 k $\Sigma e-\pi n$ evts: 2268	☒ Data ok ☐ Junk
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Run Number: 12323	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 09:33 Stop time (RC GUI): 10:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretig: 90 k $e-\pi n$ evts: 31	SHMS prescale pretig: 127 k $\Sigma e-\pi n$ evts: 2299	☒ Data ok ☐ Junk
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Run Number: 12324	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:33 Stop time (RC GUI): 10:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretig: 23 k $e-\pi n$ evts: 5	SHMS prescale pretig: 30 k $\Sigma e-\pi n$ evts: 2304	☒ Data ok ☐ Junk
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Run Number: 12325	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:13:35 Stop time (RC GUI): 12:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretig: 177 k $e-\pi n$ evts: 2	SHMS prescale pretig: 176 k $\Sigma e-\pi n$ evts: 2	☒ Data ok ☐ Junk
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40 uA on during

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

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

Date: 21/09/23
yy mm dd

Initials: RLT

Continuation of Configuration:

$$\text{Low } \epsilon_q Q^2 = 6.0, W = 3.14$$

$$x = 0.39, \text{Left (SHMS 7.6)}$$

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

Run Number: 12326	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12-25 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: Prescale							

Run Number: 12327	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:25 Stop time (RC GUI): 13-24	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 196 k $e-\pi n$ evts: 61	SHMS prescale pretrig: 280 k $\Sigma e-\pi n$ evts: 2365	COIN pretrig: 19.7 k ☐ Data ok ☐ Junk
Comments:							

Run Number: 12328	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13-25 Stop time (RC GUI): 13-58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 115 k $e-\pi n$ evts: 24	SHMS prescale pretrig: 165 k $\Sigma e-\pi n$ evts: 2389	COIN pretrig: 115 k ☒ Data ok ☐ Junk
Comments: Ended w/ SHMS Q2 interlock							

Run Number: 12329	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15-29 Stop time (RC GUI): 15:49	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 30 k $e-\pi n$ evts: 7	SHMS prescale pretrig: 413 k $\Sigma e-\pi n$ evts: 2396	COIN pretrig: 36 k ☒ Data ok ☐ Junk
Comments: ended w/ ~10 min of beam down							

Run Number: 12330	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:04:04 Stop time (RC GUI): 17:02:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 59	SHMS prescale pretrig: 285 k $\Sigma e-\pi n$ evts: 2455	COIN pretrig: k ☒ Data ok ☐ Junk
Comments: AMS-3/4 run							

Run Number: 12331	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:03:30 Stop time (RC GUI): 18:01:38	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 140 k $e-\pi n$ evts: 54	SHMS prescale pretrig: 242 k $\Sigma e-\pi n$ evts: 2509	COIN pretrig: 143 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 21/09/23
yy mm dd

Initials: RL

Continuation of Configuration:

$\theta_{\text{low}} = 2^\circ$, $Q^2 = 6$, $W = 3.14$

$X = 0.39$, SHMS left

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

Run Number: 12332	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: <u>ce</u> / fadc	Start time (RC GUI): 18:02:17 Stop time (RC GUI): 19:03:43	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 195 k pretrig: $e-\pi n$ evts: 46	SHMS prescale 280 k pretrig: $\Sigma e-\pi n$ evts: 2555	COIN pretrig: 197 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12333	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: <u>ce</u> / fadc	Start time (RC GUI): 19:04:35 Stop time (RC GUI): 20:12:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 243 k pretrig: $e-\pi n$ evts: 50	SHMS prescale 350 k pretrig: $\Sigma e-\pi n$ evts: 2605	COIN pretrig: 241 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12334	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: <u>ce</u> / fadc	Start time (RC GUI): 20:13:17 Stop time (RC GUI): 21:13:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 213 k pretrig: $e-\pi n$ evts: 68	SHMS prescale 307 k pretrig: $\Sigma e-\pi n$ evts: 2673	COIN pretrig: 212 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12335	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: <u>ce</u> / fadc	Start time (RC GUI): 21:13:47 Stop time (RC GUI): 22:25:09	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 259 k pretrig: $e-\pi n$ evts: 67	SHMS prescale 373 k pretrig: $\Sigma e-\pi n$ evts: 2760	COIN pretrig: 257 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12336	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: <u>ce</u> / fadc	Start time (RC GUI): 22:25:47 Stop time (RC GUI): 23:42:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 276 k pretrig: $e-\pi n$ evts: 103	SHMS prescale 397 k pretrig: $\Sigma e-\pi n$ evts: 2843	COIN pretrig: 273 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12337	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 8 PS6: -1 Mode10: <u>ce</u> / fadc	Start time (RC GUI): 23:43:12 Stop time (RC GUI):	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 89 k pretrig: $e-\pi n$ evts: 28	SHMS prescale 126 k pretrig: $\Sigma e-\pi n$ evts: 2871	COIN pretrig: 94 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 21/09/24
yy mm dd

Initials: MS

Continuation of Configuration:

low ϵ , $Q^2 = 6$, $w = 3.14$

$x = 0.39$ SHMS left

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

Run Number: 12338	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: _____ PS3: _____ PS4: 6 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 00:50:31 Stop time (RC GUI): 01:00:00	☐ 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: BEAM went back down. I'll start a fresh one when it is back.

Run Number: 12339	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:05:37 Stop time (RC GUI): 02:22:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 37 k $e-\pi n$ evts: 11	SHMS prescale pretrig: 52 k $\Sigma e-\pi n$ evts: 2882	COIN pretrig: 40 k ☒ Data ok ☐ Junk
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Run Number: 12340	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:56:46 Stop time (RC GUI): 04:08:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 203 k $e-\pi n$ evts: 67	SHMS prescale pretrig: 292 k $\Sigma e-\pi n$ evts: 2949	COIN pretrig: 210 k ☒ Data ok ☐ Junk
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Run Number: 12341	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:09:32 Stop time (RC GUI): ~05:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 206 k $e-\pi n$ evts: 50	SHMS prescale pretrig: 295 k $\Sigma e-\pi n$ evts: 2999	COIN pretrig: 208 k ☒ Data ok ☐ Junk
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Run Number: 12342	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:16:54 Stop time (RC GUI): 06:28:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 249 k $e-\pi n$ evts: 58	SHMS prescale pretrig: 359 k $\Sigma e-\pi n$ evts: 3057	COIN pretrig: 249 k ☒ Data ok ☐ Junk
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Run Number: 12343	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:28:52 Stop time (RC GUI): 07:28:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 198 k $e-\pi n$ evts: 43	SHMS prescale pretrig: 286 k $\Sigma e-\pi n$ evts: 3100	COIN pretrig: 200 k ☒ Data ok ☐ Junk
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Run Number: 12343	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:28:52 Stop time (RC GUI): 07:28:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 198 k $e-\pi n$ evts: 43	SHMS prescale pretrig: 286 k $\Sigma e-\pi n$ evts: 3100	COIN pretrig: 200 k ☒ Data ok ☐ Junk
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p(e,e'π)n Run Sheet

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

Date: 21 / 09 / 24
yy mm dd

Initials: _____

Continuation of Configuration:

low E, $Q^2 = 6$, $W = 3.14$

$x = 0.39$, SHMS Left

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

Run Number: 12344	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07:29:04 Stop time (RC GUI): 08:22:53	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 144 k $e-\pi n$ evts: 45	SHMS prescale pretrig: 208 k $\Sigma e-\pi n$ evts: 3145	COIN pretrig: 151 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12345	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:56 Stop time (RC GUI): 13:58	☐ 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
Comments: 12345 is very short - Bad PS factors Junk							

Run Number: 12346	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:58 Stop time (RC GUI): 14:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 156 k $e-\pi n$ evts: 1	SHMS prescale pretrig: 157 k $\Sigma e-\pi n$ evts:	COIN pretrig: 39 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12347	☒ 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: < 1 min. Had wrong ps factors (forgot to save)							

Run Number: 12348	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 15:10 Stop time (RC GUI): 15:34	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 28	SHMS prescale pretrig: 123 k $\Sigma e-\pi n$ evts: 3173	COIN pretrig: k ☒ Data ok ☐ Junk
Comments: 3/4 Keeping all of T6 and 100 Hz of T1 and T3 15-34 Beam down due to ARCS DC power supply							

Run Number: 12349	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 16 PS4: -1 PS5: -1 PS6: 6 Mode10: cer / fadc	Start time (RC GUI): 19:45:20 Stop time (RC GUI): 20:04:42	☐ 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: 3/4 min No beam for majority of run							

p(e,e' π)n Run Sheet

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

Date: 21/09/25
yy mm dd

Initials: ms

Continuation of Configuration:

low z , $Q^2=6$, $w=3.14$

$x=0.39$, SHMS left

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

Run Number: 12350	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 02:57:44 Stop time (RC GUI): 03:55:04	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 38 k $e-\pi n$ evts:	SHMS prescale pretrig: 3211 k $\Sigma e-\pi n$ evts:	COIN pretrig: 218 k ☒ Data ok ☐ Junk
Comments: 3/4 run							

Run Number: 12351	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 3:58:29 Stop time (RC GUI): 4:57:02	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 209 k $e-\pi n$ evts: 66	SHMS prescale pretrig: 304 k $\Sigma e-\pi n$ evts: 3277	COIN pretrig: 206 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12352	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 4:57:37 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: 12353	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 5:05:13 Stop time (RC GUI): 6:06:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 189 k $e-\pi n$ evts: 46	SHMS prescale pretrig: 275 k $\Sigma e-\pi n$ evts: 3323	COIN pretrig: 190 k ☒ Data ok ☐ Junk
Comments: A							

Run Number: 12354	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 6:06:40 Stop time (RC GUI): 6:32:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 66 k $e-\pi n$ evts: 13	SHMS prescale pretrig: 97 k $\Sigma e-\pi n$ evts: 3336	COIN pretrig: 70 k ☒ Data ok ☐ Junk
Comments: Beam went down							

Run Number: 12355	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 6:45:35 Stop time (RC GUI): 7:13:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 47 k $e-\pi n$ evts: 13	SHMS prescale pretrig: 67 k $\Sigma e-\pi n$ evts: 3349	COIN pretrig: 54 k ☒ Data ok ☐ Junk
Comments: About 15mins of good beam							

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

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

Date: 21 / 09 / 25
yy mm dd

Initials: ms

Continuation of Configuration:

$\text{low } \epsilon, Q^2=6, W=3.14$

$\alpha=0.39, \text{shms left}$

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

Run Number: <u>12356</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: <u>4</u> PS3: <u>1</u> PS4: <u>6</u> PS5: <u>6</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): <u>09-17</u> Stop time (RC GUI): <u>10-16</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>262</u> k pretrig: $e-\pi n$ evts: <u>55</u>	SHMS prescale <u>295</u> k pretrig: $\Sigma e-\pi n$ evts: <u>3604</u>	COIN pretrig: <u>262</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: <u>12357</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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>10-17</u> Stop time (RC GUI): <u>10:47</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>91</u> k pretrig: $e-\pi n$ evts: <u>21</u>	SHMS prescale <u>134</u> k pretrig: $\Sigma e-\pi n$ evts: <u>3625</u>	COIN pretrig: <u>94</u> k ☒ Data ok ☐ Junk
Comments: <u>NMR Lock was lost part way through</u>							

Run Number: <u>12358</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>7</u> PS4: <u>6</u> PS5: <u>9</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): <u>18:50</u> Stop time (RC GUI): <u>19:48</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>187</u> k pretrig: $e-\pi n$ evts: <u>48</u>	SHMS prescale <u>273</u> k pretrig: $\Sigma e-\pi n$ evts: <u>3673</u>	COIN pretrig: <u>187</u> k ☒ Data ok ☐ Junk
Comments: <u>First Run after long down for Arc Box Supply issue</u> <u>HMS NMR still not locked.</u> <u>642.98k evts</u>							

Run Number: <u>12359</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 _____ k pretrig: $e-\pi n$ evts:	SHMS prescale _____ k pretrig: $\Sigma e-\pi n$ 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 _____ k pretrig: $e-\pi n$ evts:	SHMS prescale _____ k pretrig: $\Sigma e-\pi n$ 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 _____ k pretrig: $e-\pi n$ evts:	SHMS prescale _____ k pretrig: $\Sigma e-\pi n$ 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: 21 / 9 / 28
yy mm dd

Initials: SJOK

Use a separate sheet for each configuration.

Configuration Name: $Q^2=6.0$

Low ϵ Data Taking

$W=3.14$, $Q^2=0.39$, SHMS $W=7.06$

$E_{\text{beam}}=9.173$ GeV

$I_{\text{beam}}=70$ 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
	mm	mm
Nomin: -0.5		Nomin: 0.0
3H07C	X	Y
	mm	mm
Nomin: -0.9		Nomin: -0.3

HMS

SHMS

Q1	I-SET (from PSU) 123.57 A B-HALL 0.17203 T	I-SET (from PSU) 2748.52 A B-HALL -17.462 KG	HB
Q2	I-SET (from PSU) 106.087 A B-HALL -0.17343 T	I-SET (from PSU) 1696.77 A B-HALL 12.029 KG	Q1
Q3	I-SET (from PSU) 51.4406 A B-HALL 0.10247 T	I-SET (from PSU) 2833.8 A B-HALL 26.707 KG	Q2
D	I-READ 312.14 A B-NMR 0.28688 T	I-SET (from PSU) 1864.61 A B-HALL -17.980 KG	Q3
	If momentum increased: ☒ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) 2563.65 A B-NMR 18.552 KG	D

Run Number:

12362

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

PS1: 13
PS2: -1
PS3: 10
PS4: -1
PS5: -1
PS6: 0
Mode10: 007 / fadc

Start time (RC GUI):

20:04:57

Stop time (RC GUI):

21:00:15

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: / k

$e-\pi n$ evts:

37

SHMS prescale
pretrig: 137 k

$\Sigma e-\pi n$ evts:

3710

COIN
pretrig: / k

☒ Data ok

☒ Junk

Comments:

3/4, very bad beam. * Check OC, tripped from bad the beam/magnet mismatch

Run Number:

12363

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

PS1: 13
PS2: -1
PS3: 10
PS4: -1
PS5: -1
PS6: 0
Mode10: 007 / fadc

Start time (RC GUI):

21:16:11

Stop time (RC GUI):

22:03:06

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: / k

$e-\pi n$ evts:

37

SHMS prescale
pretrig: 177 k

$\Sigma e-\pi n$ evts:

3747

COIN
pretrig: / k

☒ Data ok

☐ Junk

Comments:

3/4

Run Number:

12364

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: 007 / fadc

Start time (RC GUI):

22:04:06

Stop time (RC GUI):

23:03:12

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 177 k

$e-\pi n$ evts:

65

SHMS prescale
pretrig: 269 k

$\Sigma e-\pi n$ evts:

3812

COIN
pretrig: 176 k

☒ Data ok

☐ Junk

Comments:

Run Number:

12365

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

PS1: 13
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: 007 / fadc

Start time (RC GUI):

23:03:48

Stop time (RC GUI):

00:16

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 202 k

$e-\pi n$ evts:

89

SHMS prescale
pretrig: 312 k

$\Sigma e-\pi n$ evts:

3901

COIN
pretrig: 207 k

☒ Data ok

☐ Junk

Comments:

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

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

Date: 21 / 09 / 29
yy mm dd

Initials: FH/CA

Continuation of Configuration:

low E, $Q^2 = 6$, $w = 314$

$X = 0.32$, SHMS left

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

Run Number: 12366	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:17 Stop time (RC GUI): 01:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 185 k pretrig: $e-\pi n$ evts: 64	SHMS prescale 285 k pretrig: $\Sigma e-\pi n$ evts: 3965	COIN pretrig: 188 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12367	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:22 Stop time (RC GUI): 02:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 103 k pretrig: $e-\pi n$ evts: 32	SHMS prescale 157 k pretrig: $\Sigma e-\pi n$ evts: 3997	COIN pretrig: 109 k ☒ Data ok ☐ Junk
Comments: stopped early SHMS HB interlocked at the end							

Run Number: 12368	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:37 Stop time (RC GUI): 04:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 217 k pretrig: $e-\pi n$ evts: 70	SHMS prescale 334 k pretrig: $\Sigma e-\pi n$ evts: 4067	COIN pretrig: 216 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12369	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:48 Stop time (RC GUI): 05:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 151 k pretrig: $e-\pi n$ evts: 56	SHMS prescale 794 k pretrig: $\Sigma e-\pi n$ evts: 4123	COIN pretrig: 196 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12370	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:59 Stop time (RC GUI): 06:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 87 k pretrig: $e-\pi n$ evts: 32	SHMS prescale 133 k pretrig: $\Sigma e-\pi n$ evts: 4155	COIN pretrig: 50 k ☒ Data ok ☐ Junk
Comments: beam off at 06:31							

Run Number: 12372	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:46:03 Stop time (RC GUI): 05:22:51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 122 k pretrig: $e-\pi n$ evts: 18	SHMS prescale 203 k pretrig: $\Sigma e-\pi n$ evts: 4173	COIN pretrig: 99 k ☒ Data ok ☐ Junk
Comments: 21/09/30 Data							

30mA

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

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

Date: 21/9/30
yy mm dd

Initials: GH

Continuation of Configuration:

low Σ , $Q^2=6$, $W=3.14$

SHMS left

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

Run Number: 12373	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 11 PS2: -1 PS3: 1 PS4: 1 PS5: 1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 15:24 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: HMS 3/4 run junk!							

Run Number: 12374	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 11 PS2: -1 PS3: 1 PS4: 1 PS5: 1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 17:32 Stop time (RC GUI): 18:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 292 k $e-\pi n$ evts: 35	SHMS prescale pretrig: 476 k $\Sigma e-\pi n$ evts: 4208	COIN pretrig: 77? k ☒ Data ok ☐ Junk
Comments: SHMS 3/4 x HMS-3/4 RUN 65mA 1.5M							

Run Number: 12375	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 11 PS2: -1 PS3: 1 PS4: 1 PS5: 1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 18:06 Stop time (RC GUI): 18:37	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 260 k $e-\pi n$ evts: 21	SHMS prescale pretrig: 424 k $\Sigma e-\pi n$ evts: 4229	COIN pretrig: 69 k ☒ Data ok ☐ Junk
Comments: HMS-3/4 x SHMS 3/4 RUN 1.39M evts							

Run Number: 12376	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 11 PS2: -1 PS3: 1 PS4: 1 PS5: 1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 18:38 Stop time (RC GUI): 19:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 37 k $e-\pi n$ evts: 1	SHMS prescale pretrig: 57 k $\Sigma e-\pi n$ evts: 4230	COIN pretrig: 24 k ☒ Data ok ☐ Junk
Comments: Stop run due to BLM trips. Actually only ~10min DATA 116k evts Beam off ~18:50. Short							

Run Number: 12377	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 11 PS2: -1 PS3: 1 PS4: 1 PS5: 1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 21:19 Stop time (RC GUI): 21:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 358 k $e-\pi n$ evts: 27	SHMS prescale pretrig: 584 k $\Sigma e-\pi n$ evts: 4257	COIN pretrig: 99 k ☒ Data ok ☐ Junk
Comments: good - 1.02M							

Run Number: 12378	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 12 PS2: -1 PS3: 1 PS4: 1 PS5: 1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 22:00 Stop time (RC GUI): 22:12	☐ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: X	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☐ Data ok ☒ Junk
Comments: No Beam, tripped off just as starting run Empty							

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

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

Date: 21/09/30
yy mm dd

Initials: GH

Continuation of Configuration:

$$Q^2 = 60, W = 3.14$$

$$SHMS = 7.06^\circ$$

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

Run Number: 12379	☒ 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: cer / fadc	Start time (RC GUI): 22:31 Stop time (RC GUI): 23:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 156 k $e-\pi n$ evts: 25	SHMS prescale pretrig: 230 k $\Sigma e-\pi n$ evts: 4282	COIN pretrig: 75 k ☒ Data ok ☐ Junk
Comments:							

457K evts

Run Number: 12380	☒ 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: cer / fadc	Start time (RC GUI): 23:13 Stop time (RC GUI): 23:44	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 121 k $e-\pi n$ evts: 23	SHMS prescale pretrig: 184 k $\Sigma e-\pi n$ evts: 4282	COIN pretrig: 58 k ☒ Data ok ☐ Junk
Comments:							

60mA

(-2) from Run 12304 → (4303) 356k evts
 (accidentally added dummy run #s)

Run Number: 12381	☒ 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: cer / fadc	Start time (RC GUI): 23:55 Stop time (RC GUI): 00:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 302 k $e-\pi n$ evts: 57	SHMS prescale pretrig: 450 k $\Sigma e-\pi n$ evts: 4360	COIN pretrig: 132 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12382	☒ 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: cer / fadc	Start time (RC GUI): mon 01:07 Stop time (RC GUI): 02:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 331 k $e-\pi n$ evts: 66	SHMS prescale pretrig: 493 k $\Sigma e-\pi n$ evts: 4426	COIN pretrig: 147 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12383	☒ 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: cer / fadc	Start time (RC GUI): 02:23 Stop time (RC GUI): 03:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 269 k $e-\pi n$ evts: 51	SHMS prescale pretrig: 407 k $\Sigma e-\pi n$ evts: 4477	COIN pretrig: 122 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12384	☒ 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: cer / fadc	Start time (RC GUI): 03:19 Stop time (RC GUI): 04:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 296 k $e-\pi n$ evts: 44	SHMS prescale pretrig: 439 k $\Sigma e-\pi n$ evts: 4521	COIN pretrig: 132 k ☒ Data ok ☐ Junk
Comments:							

p(e,e' π)n Run Sheet

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

Date: 21/10/14
yy mm dd

Initials: RLT

Continuation of Configuration:

Q^2 6.0, $W = 7.19$

$SHMS = 7.06$

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

Run Number: 12385	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>04:19</u> Stop time (RC GUI): <u>05:18</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>274</u> k $e-\pi n$ evts: <u>49</u>	SHMS prescale pretrig: <u>203</u> k $\Sigma e-\pi n$ evts: <u>4570</u>	COIN pretrig: <u>125</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12386	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>05:19</u> Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts:	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts:	COIN pretrig: ____ k ☐ Data ok ☒ Junk
Comments: <i>Junk, no beam</i>							

Run Number: 12387	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>06:00</u> Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts:	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts:	COIN pretrig: ____ k ☐ Data ok ☒ Junk
Comments: <i>Fit didn't look good... few events. 60mA, bumped to 65mA last minute of run</i>							

Run Number: 12388	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>06:</u> Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts:	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts:	COIN pretrig: ____ k ☐ Data ok ☒ Junk
Comments: <i>65 Junk 12387 also junk</i>							

Run Number: 12390	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>06:18:30</u> Stop time (RC GUI): <u>07:01</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>129</u> k $e-\pi n$ evts: <u>50</u>	SHMS prescale pretrig: <u>193</u> k $\Sigma e-\pi n$ evts: <u>4620</u>	COIN pretrig: <u>118</u> k ☒ Data ok ☐ Junk
Comments: <i>Stopped due to interlock</i>							

Run Number: 12391	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>08:18</u> Stop time (RC GUI): <u>09:18</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>160</u> k $e-\pi n$ evts: <u>55</u>	SHMS prescale pretrig: <u>238</u> k $\Sigma e-\pi n$ evts: <u>4675</u>	COIN pretrig: <u>149</u> k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 21/10/11
yy mm dd

Initials: P.S

Continuation of Configuration:

$$Q^2 \approx 6.0, W = 3.19,$$

$$x = 0.39, \text{ low } E$$

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

Run Number: 12392	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -7 Mode10: cer / fadc	Start time (RC GUI): 09:19 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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Beam Tripped.

Run Number: 12393	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -7 Mode10: cer / fadc	Start time (RC GUI): 09:51 Stop time (RC GUI): 11:17	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 166 k pretrig: $e-\pi n$ evts: 54	SHMS prescale 233 k pretrig: $\Sigma e-\pi n$ evts: 4729	COIN pretrig: 154 k ☒ Data ok ☐ Junk
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MCC gave 65 μA only

Run Number: 12394	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -7 Mode10: cer / fadc	Start time (RC GUI): 11:11 Stop time (RC GUI): 11:56	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 60 k pretrig: $e-\pi n$ evts: 27	SHMS prescale 78 k pretrig: $\Sigma e-\pi n$ evts: 4756	COIN pretrig: 55 k ☒ Data ok ☐ Junk
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MCC

end for long beam off

Run Number: 12395	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -7 Mode10: cer / fadc	Start time (RC GUI): 12:13 Stop time (RC GUI): 13:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 112 k pretrig: $e-\pi n$ evts: 33	SHMS prescale 148 k pretrig: $\Sigma e-\pi n$ evts: 4789	COIN pretrig: 93 k ☒ Data ok ☐ Junk
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~ 65 μA , a few times beam tripped

Run Number: 12396	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -7 Mode10: cer / fadc	Start time (RC GUI): 13:13 Stop time (RC GUI): 14:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 116 k pretrig: $e-\pi n$ evts: 39	SHMS prescale 167 k pretrig: $\Sigma e-\pi n$ evts: 4828	COIN pretrig: 110 k ☒ Data ok ☐ Junk
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Run Number: 12397	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -7 Mode10: cer / fadc	Start time (RC GUI): 14:13 Stop time (RC GUI): 15:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 107 k pretrig: $e-\pi n$ evts: 27	SHMS prescale 155 k pretrig: $\Sigma e-\pi n$ evts: 4855	COIN pretrig: 114 k ☒ Data ok ☐ Junk
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p(e,e' π)n Run Sheet

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

Date: 21 / 10 / 1
yy mm dd

Initials: P.S.

Continuation of Configuration:

$$Q^2 = 6.0, W = 3.19$$

$$x = 0.39 \text{ low } E$$

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

Run Number: 12398	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / 4adc	Start time (RC GUI): 15:13 Stop time (RC GUI): 16:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 179 k $e-\pi n$ evts: 102	SHMS prescale pretrig: 277 k $\Sigma e-\pi n$ evts: 4957	COIN pretrig: 179 k ☒ Data ok ☐ Junk
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* NGC cut on Physics analysis removed yield improved ~25%

Run Number: 12399	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / 4adc	Start time (RC GUI): 16:15 Stop time (RC GUI): 17:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 179 k $e-\pi n$ evts: 81	SHMS prescale pretrig: 278 k $\Sigma e-\pi n$ evts: 5038	COIN pretrig: 179 k ☒ Data ok ☐ Junk
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Run Number: 12400	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / 4adc	Start time (RC GUI): 17:15 Stop time (RC GUI): 18:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 175 k $e-\pi n$ evts: 79	SHMS prescale pretrig: 270 k $\Sigma e-\pi n$ evts: 5117	COIN pretrig: 179 k ☒ Data ok ☐ Junk
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7821 $e-\pi n$ up to here when re-analyzed

Run Number: 12401	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / 4adc	Start time (RC GUI): 18:24 Stop time (RC GUI): 19:06	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 20 k $e-\pi n$ evts: 11	SHMS prescale pretrig: 29 k $\Sigma e-\pi n$ evts: 5128	COIN pretrig: 40 k ☒ Data ok ☒ Junk
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short due to beam went down
Some data $\rightarrow$ 110 beam for most of the period

Run Number: 12402	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / 4adc	Start time (RC GUI): 19:09 Stop time (RC GUI): 19:28	☒ 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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No beam

Run Number: 12403	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / 4adc	Start time (RC GUI): 20:18 Stop time (RC GUI): 20:56	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 96 k $e-\pi n$ evts: 50	SHMS prescale pretrig: 148 k $\Sigma e-\pi n$ evts: 5178	COIN pretrig: 98 k ☒ Data ok ☐ Junk
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Beam down again at end

p(e,e' π)n Run Sheet

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

Date: 21 / 10 / 01
yy mm dd

Initials: SJD K

Continuation of Configuration:

$$Q^2 = 6.0 \text{ q } w = 3.19$$

$$\text{low } E \text{ q } x = 0.39 \text{ q } \text{left} \rightarrow \text{SHMS } 7.06^\circ$$

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

Run Number: 12404	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 06 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:35 Stop time (RC GUI): 22:36	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 172 k SHMS prescale: 266 k COIN pretrig: 174 k e- π n evts: 106 Σ e- π n evts: 5284	☒ Data ok ☐ Junk
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Comments: ~~748~~ 748⁹ e-TA after re-analysis $\rightarrow$

Run Number: 12405	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 06 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:37 Stop time (RC GUI): 23:37	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 161 k SHMS prescale: 248 k COIN pretrig: 104 k e- π n evts: 91 Σ e- π n evts: 8080	☒ Data ok ☐ Junk
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Comments: 748⁹ + 91

Run Number: 12406	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 06 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:00 Stop time (RC GUI): 01:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 177 k SHMS prescale: 272 k COIN pretrig: 176 k e- π n evts: 99 Σ e- π n evts: 8179	☒ Data ok ☐ Junk
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Comments:

Run Number: 12407	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 06 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:02 Stop time (RC GUI): 02:02	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 181 k SHMS prescale: 277 k COIN pretrig: 178 k e- π n evts: 109 Σ e- π n evts: 8288	☒ Data ok ☐ Junk
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Comments:

Run Number: 12408	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 06 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:03 Stop time (RC GUI): 03:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 198 k SHMS prescale: 306 k COIN pretrig: 194 k e- π n evts: 101 Σ e- π n evts: 8389	☒ Data ok ☐ Junk
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Comments:

Run Number: 12409	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm	PS1: 13 PS2: -1 PS3: -1 PS4: 06 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:07 Stop time (RC GUI): 04:04	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 044 k SHMS prescale: 255 k COIN pretrig: 165 k e- π n evts: 89 Σ e- π n evts: 8478	☒ Data ok ☐ Junk
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Comments: 3/4 12400 Junk

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

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

Date: 27/10/2
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 6.0$, $W = 3.19$

low ϵ , $K = 0.39$, left (SHMS 7.06)

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

Run Number: <u>12411</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>5</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>04:08</u> Stop time (RC GUI): <u>05:07</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>238</u> k pretrig: <u>8241</u> $e-\pi n$ evts: <u>72</u>	SHMS prescale <u>303</u> k pretrig: <u>205</u> $\Sigma e-\pi n$ evts: <u>8550</u>	COIN pretrig: <u>82</u> k ☒ Data ok ☐ Junk
Comments: <u>45mA</u>							

Run Number: <u>12412</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>5</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>05:08</u> Stop time (RC GUI): <u>06:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>215</u> k pretrig: <u>215</u> $e-\pi n$ evts: <u>51</u>	SHMS prescale <u>292</u> k pretrig: <u>292</u> $\Sigma e-\pi n$ evts: <u>8601</u>	COIN pretrig: <u>85</u> k ☒ Data ok ☐ Junk
Comments: <u>45mA</u> Beam down a little while (~5 min)							

Run Number: <u>12413</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>5</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>06:15</u> Stop time (RC GUI): <u>07:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>237</u> k pretrig: <u>237</u> $e-\pi n$ evts: <u>68</u>	SHMS prescale <u>302</u> k pretrig: <u>302</u> $\Sigma e-\pi n$ evts: <u>8669</u>	COIN pretrig: <u>85</u> k ☒ Data ok ☐ Junk
Comments: <u>45mA</u>							

Run Number: <u>12414</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>5</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>07:14</u> Stop time (RC GUI): <u>08:15</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>263</u> k pretrig: <u>263</u> $e-\pi n$ evts: <u>65</u>	SHMS prescale <u>334</u> k pretrig: <u>334</u> $\Sigma e-\pi n$ evts: <u>8734</u>	COIN pretrig: <u>82</u> k ☒ Data ok ☐ Junk
Comments: <u>45mA</u>							

Run Number: <u>12415</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>5</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>08:18</u> Stop time (RC GUI): <u>09:16</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale ____ k pretrig: ____ $e-\pi n$ evts: <u>72</u>	SHMS prescale ____ k pretrig: ____ $\Sigma e-\pi n$ evts: <u>8806</u>	COIN pretrig: ____ k ☒ Data ok ☐ Junk
Comments: <u>45mA</u>							

Run Number: <u>12416</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>5</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>09:17</u> Stop time (RC GUI): <u>10:17</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>240</u> k pretrig: <u>240</u> $e-\pi n$ evts: <u>71</u>	SHMS prescale <u>304</u> k pretrig: <u>304</u> $\Sigma e-\pi n$ evts: <u>8877</u>	COIN pretrig: <u>86</u> k ☒ Data ok ☐ Junk
Comments: <u>45mA</u>							

p(e,e' π)n Run Sheet

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

Date: 21/10/02
yy mm dd

Initials: _____

Continuation of Configuration:

$Q^2=6$, $W=3.19$

$low \pm x=0.39$ left

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

Run Number: 12417	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 10:20 Stop time (RC GUI): 10:22	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u> </u> k $e-\pi n$ evts: <u> </u>	SHMS prescale pretrig: <u> </u> k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: <u> </u> k ☐ Data ok ☐ Junk
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FADC Mode 10 run

Run Number: 12418	☐ 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>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 10:33 Stop time (RC GUI): 11:33	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 390 k $e-\pi n$ evts: 3	SHMS prescale pretrig: 193 k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: 39 k ☒ Data ok ☐ Junk
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Moved to Dummy target (~4hr)

Run Number: 12419	☐ 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>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 11:33 Stop time (RC GUI): 12:09	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 74 k $e-\pi n$ evts: 3	SHMS prescale pretrig: 43 k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: 22 k ☒ Data ok ☐ Junk
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Short Run. MCC: "will be out of beam for ~4 hours"

Run Number: 12420	☐ 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>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 16:54 Stop time (RC GUI): 187:55	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 244 k $e-\pi n$ evts: 3	SHMS prescale pretrig: 181 k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: 31 k ☒ Data ok ☐ Junk
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Run Number: 12421	☐ 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>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 17:55 Stop time (RC GUI): 18:56	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 265 k $e-\pi n$ evts: 4	SHMS prescale pretrig: 160 k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: 38 k ☒ Data ok ☐ Junk
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12422 Junk $\rightarrow$ CODA restart

Run Number: 12423	☐ 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>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 18:59 Stop time (RC GUI): 20:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 264 k $e-\pi n$ evts: 1	SHMS prescale pretrig: 160 k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: 34 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: 21/10/02
yy mm dd

Initials: SJOK

Continuation of Configuration:

$$Q^2 = 6.0 \quad W = 3.14$$

$$\text{Low } E_{\gamma} x = 0.39, \text{ SHMS left } (7.06^\circ)$$

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

Run Number: 12424	☐ 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>33</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / vac	Start time (RC GUI): <u>20:01</u> Stop time (RC GUI): <u>20:30</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>168</u> k $e-\pi n$ evts: <u>1</u>	SHMS prescale pretrig: <u>103</u> k $\Sigma e-\pi n$ evts: <u>—</u>	COIN pretrig: <u>14</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 12425	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / vac	Start time (RC GUI): <u>20:40</u> Stop time (RC GUI): <u>21:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>247</u> k $e-\pi n$ evts: <u>59</u>	SHMS prescale pretrig: <u>316</u> k $\Sigma e-\pi n$ evts: <u>8936</u>	COIN pretrig: <u>89</u> k ☒ Data ok ☐ Junk
Comments: 8877 + 59 45uA							

Run Number: 12426	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / vac	Start time (RC GUI): <u>21:40</u> Stop time (RC GUI): <u>22:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>247</u> k $e-\pi n$ evts: <u>71</u>	SHMS prescale pretrig: <u>316</u> k $\Sigma e-\pi n$ evts: <u>9007</u>	COIN pretrig: <u>89</u> k ☒ Data ok ☐ Junk
Comments: 45uA							

Run Number: 12427	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / vac	Start time (RC GUI): <u>22:40</u> Stop time (RC GUI): <u>23:40</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>146</u> k $e-\pi n$ evts: <u>50</u>	SHMS prescale pretrig: <u>250</u> k $\Sigma e-\pi n$ evts: <u>9057</u>	COIN pretrig: <u>77</u> k ☒ Data ok ☐ Junk
Comments: 45uA							

Run Number: 12428	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / vac	Start time (RC GUI): <u>23:44</u> Stop time (RC GUI): <u>00:44:58</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>220</u> k $e-\pi n$ evts: <u>58</u>	SHMS prescale pretrig: <u>222</u> k $\Sigma e-\pi n$ evts: <u>9115</u>	COIN pretrig: <u>83</u> k ☒ Data ok ☐ Junk
Comments: 45uA							

Run Number: 12429	☒ 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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / vac	Start time (RC GUI): <u>00:45</u> Stop time (RC GUI): <u>01:59</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>294</u> k $e-\pi n$ evts: <u>89</u>	SHMS prescale pretrig: <u>376</u> k $\Sigma e-\pi n$ evts: <u>9204</u>	COIN pretrig: <u>107</u> k ☒ Data ok ☐ Junk
Comments: 45uA							

p(e,e' π)n Run Sheet

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

Date: 21/10/02
yy mm dd

Initials: RT

Continuation of Configuration:

$Q^2=6.60$ $W=3.19$

SHMS left

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

Run Number: 12430	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 02:00 Stop time (RC GUI): 03:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 4073 k SHMS prescale 306 k e- π n evts: 75 Σ e- π n evts: 9279	COIN pretrig: 87 k ☒ Data ok ☐ Junk
Comments: 3/4 45 μ A						

Run Number: 12431	☒ 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: cer / fadc	Start time (RC GUI): 03:01 Stop time (RC GUI): ? 03:45?	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 163 k SHMS prescale 207 k e- π n evts: 49 Σ e- π n evts: 9328	COIN pretrig: 59 k ☒ Data ok ☐ Junk
Comments: Cata issue near end, Cata crash 45 μ A * - ~1 min at 35 μ A						

Run Number: 12432 12433	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 5 PS5: -9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:42:57 Stop time (RC GUI): 04:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 257 k SHMS prescale 302 k e- π n evts: 83 Σ e- π n evts: 9411	COIN pretrig: 85 k ☒ Data ok ☐ Junk
Comments: 12433 (12432 junk) 45 μ A						

Run Number: 12440 12441	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 5 PS5: 8 PS6: -7 Mode10: cer / fadc	Start time (RC GUI): 05:44 Stop time (RC GUI): 06:49	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 265 k SHMS prescale 339 k e- π n evts: 61 Σ e- π n evts: 9472	COIN pretrig: 95 k ☒ Data ok ☐ Junk
Comments: 45 μ A 12434-12440 junk. Cata issues for 4 hr ended up rebooting all the ROCs.						

Run Number: 12442	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 5 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:51 Stop time (RC GUI): 07:50	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 258 k SHMS prescale 305 k e- π n evts: 60 Σ e- π n evts: 9540	COIN pretrig: 87 k ☒ Data ok ☐ Junk
Comments: 45 μ A						

Run Number: 12443	☒ 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: cer / fadc	Start time (RC GUI): 08-06 Stop time (RC GUI): 08-51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 184 k SHMS prescale 236 k e- π n evts: 57 Σ e- π n evts: 9597	COIN pretrig: 66 k ☒ Data ok ☐ Junk
Comments:						