

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

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

Date: 21/12/12
yy mm dd

Initials: GH

Use a separate sheet for each configuration.

Configuration Name:
 $Q^2 = 6.00$ $W = 2.40$
 $\theta_{SHMS} = 9.12^\circ$ $LD+$

E_{beam}: 7.937 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
<u>-0.5</u> mm		<u>0.0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.9</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:

HMS
p: +2.1390 **θ (TV):** 34.575
From GUI Nearest 0.005

SHMS
p: +5.5120 **θ (TV):** 9.115
From GUI Nearest 0.005

Collimator: HMS: Large ☒ Sieve ☐ SHMS: Collim ☒ Sieve ☐

	HMS	SHMS	
Q1	I-SET (from PSU) <u>278.613</u> A B-HALL <u>0.3727</u> T	I-SET (from PSU) <u>1846.510</u> A B-HALL <u>-11.739</u> kG	HB
Q2	I-SET (from PSU) <u>221.463</u> A B-HALL <u>-0.4075</u> T	I-SET (from PSU) <u>1157.350</u> A B-HALL <u>8.235</u> kG	Q1
Q3	I-SET (from PSU) <u>107.632</u> A B-HALL <u>0.2316</u> T	I-SET (from PSU) <u>1943.980</u> A B-HALL <u>-18.311</u> kG	Q2
D	I-READ <u>654.550</u> A B-NMR <u>0.5855050</u> T	I-SET (from PSU) <u>1279.120</u> A B-HALL <u>-12.412</u> kG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?		D
		I-SET (from PSU) <u>1758.660</u> A B-NMR <u>12.750</u> kG	

Run Number: <u>13921</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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:06</u> Stop time (RC GUI): <u>23:05</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>257</u> k	SHMS prescale pretrig: <u>388</u> k	COIN pretrig: <u>191</u> k
					$e-\pi n$ evts: <u>846</u>	$\Sigma e-\pi n$ evts: <u>846</u>	☒ Data ok ☐ Junk

823 k evts

Run Number: <u>13922</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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:08</u> Stop time (RC GUI): <u>23:11</u>	☐ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
					$e-\pi n$ evts: _____	$\Sigma e-\pi n$ evts: _____	☒ Data ok ☐ Junk

FADC Mode10 run Data Rate ~ 10,000
EDTM = 105 Hz (by mistake)

60k evts

Run Number: <u>13923</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>5</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:12</u> Stop time (RC GUI): <u>00 - 13</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>262</u> k	SHMS prescale pretrig: <u>397</u> k	COIN pretrig: <u>195</u> k
					$e-\pi n$ evts: <u>724</u>	$\Sigma e-\pi n$ evts: <u>1570</u>	☒ Data ok ☐ Junk

Data Rate ~ 4000.
EDTM = 10 Hz

Run Number: <u>13924</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>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): <u>00 - 16</u> Stop time (RC GUI): <u>01 - 24</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>5100</u> k	SHMS prescale pretrig: <u>154</u> k	COIN pretrig: <u>222</u> k
					$e-\pi n$ evts: <u>859</u>	$\Sigma e-\pi n$ evts: <u>2429</u>	☒ Data ok ☐ Junk

HMS 3/4 Trigger Run

p(e,e'π)n Run Sheet

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Date: 21/12/13
yy mm dd

Initials: AU

Continuation of Configuration:

$Q^2 = 6.0$, $|t| = 2.4$

low ϵ , SHMS right, LD+

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

Run Number: 13925	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01-26 Stop time (RC GUI): 02-27	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 277 k $e-\pi n$ evts: 803	SHMS prescale pretrig: 420 k $\Sigma e-\pi n$ evts: 3232 3932	COIN pretrig: 204 k ☒ Data ok ☐ Junk
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Run Number: 13926	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02-28 Stop time (RC GUI): 03-32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 299 k $e-\pi n$ evts: 822	SHMS prescale pretrig: 454 k $\Sigma e-\pi n$ evts: 4054	COIN pretrig: 221 k ☒ Data ok ☐ Junk
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Run Number: 13927	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03-33 Stop time (RC GUI): 04-30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 264 k $e-\pi n$ evts: 758	SHMS prescale pretrig: 401 k $\Sigma e-\pi n$ evts: 4812	COIN pretrig: 195 k ☒ Data ok ☐ Junk
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Run Number: 13928	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04-31 Stop time (RC GUI): 05-31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 179 k $e-\pi n$ evts: 519	SHMS prescale pretrig: 270 k $\Sigma e-\pi n$ evts: 5331	COIN pretrig: 144 k ☒ Data ok ☐ Junk
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No beam for last 10 mins.

Run Number: 13929	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07-06 Stop time (RC GUI):	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 210 k $e-\pi n$ evts: 642	SHMS prescale pretrig: 317 k $\Sigma e-\pi n$ evts: 5973	COIN pretrig: 162 k ☒ Data ok ☐ Junk
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Run Number: 13930	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 8:05 Stop time (RC GUI): 9:05	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 178 k $e-\pi n$ evts: 492	SHMS prescale pretrig: 269 k $\Sigma e-\pi n$ evts: 6465	COIN pretrig: 143 k ☒ Data ok ☐ Junk
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Date: 21/12/13
yy mm dd

Initials: Rm

Continuation of Configuration:

$$Q^2 = 0.0, W = 2.4$$

low E, SHMS right, LD+

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

Run Number: 13931	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 09:06 Stop time (RC GUI): 10:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 282 k e-πn evts: 785	SHMS prescale pretrig: 429 k Σ e-πn evts: 7250	COIN pretrig: 210 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13932	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:11 Stop time (RC GUI): 11:08	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 246 k e-πn evts: 726	SHMS prescale pretrig: 374 k Σ e-πn evts: 7976	COIN pretrig: 184 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13933	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:20 Stop time (RC GUI): 11:42	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 12 k e-πn evts: 20	SHMS prescale pretrig: 10 k Σ e-πn evts:	COIN pretrig: 14 k ☒ Data ok ☐ Junk
Comments: Dummy target very low rates (prescale GUI misled us).							

Run Number: 13934	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 9 PS2: -1 PS3: -1 PS4: 2 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:44 Stop time (RC GUI): 12:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 186 k e-πn evts: 39	SHMS prescale pretrig: 431 k Σ e-πn evts: 59	COIN pretrig: 38 k ☒ Data ok ☐ Junk
Comments: Dummy dummy only							

Run Number: 13935	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 9 PS2: -1 PS3: -1 PS4: 2 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:45 Stop time (RC GUI): 13:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 168 k e-πn evts: 32	SHMS prescale pretrig: 388 k Σ e-πn evts: 91	COIN pretrig: 31 k ☒ Data ok ☐ Junk
Comments: Dummy							

Run Number: 13936	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:55 Stop time (RC GUI): 14:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 261 k e-πn evts: 712	SHMS prescale pretrig: 397 k Σ e-πn evts: 8688	COIN pretrig: 196 k ☒ Data ok ☐ Junk
Comments: Back to LD2							

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Date: 21/12/13
yy mm dd

Initials: Am

Continuation of Configuration:

$Q^2 = 6.0$, $W = 2.4$
low ϵ , SHMS right, LD +

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

Run Number: 13937	☐ 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</u> / fadc	Start time (RC GUI): <u>14:59</u> Stop time (RC GUI): <u>16:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>253</u> k $e-\pi n$ evts: <u>728</u>	SHMS prescale pretrig: <u>385</u> k $\Sigma e-\pi n$ evts: <u>9416</u>	COIN pretrig: <u>791</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13938	☐ 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</u> / fadc	Start time (RC GUI): <u>16:04</u> Stop time (RC GUI): <u>17:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>981</u> k $e-\pi n$ evts: <u>715</u>	SHMS prescale pretrig: <u>383</u> k $\Sigma e-\pi n$ evts: <u>1013</u>	COIN pretrig: <u>187</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13939	☐ 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</u> / fadc	Start time (RC GUI): <u>17:04</u> Stop time (RC GUI): <u>18:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>288</u> k $e-\pi n$ evts: <u>792</u>	SHMS prescale pretrig: <u>440</u> k $\Sigma e-\pi n$ evts: <u>10923</u>	COIN pretrig: <u>213</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13940	☐ 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</u> / fadc	Start time (RC GUI): <u>18:04</u> Stop time (RC GUI): <u>19:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>116</u> k $e-\pi n$ evts: <u>536</u>	SHMS prescale pretrig: <u>298</u> k $\Sigma e-\pi n$ evts: <u>11459</u>	COIN pretrig: <u>152</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13941	☐ 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</u> / fadc	Start time (RC GUI): <u>19:01</u> Stop time (RC GUI): <u>20:02</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>244</u> k $e-\pi n$ evts: <u>689</u>	SHMS prescale pretrig: <u>372</u> k $\Sigma e-\pi n$ evts: <u>12148</u>	COIN pretrig: <u>187</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13942	☐ 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</u> / fadc	Start time (RC GUI): <u>20:03</u> Stop time (RC GUI): <u>21:01</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>263</u> k $e-\pi n$ evts: <u>768</u>	SHMS prescale pretrig: <u>401</u> k $\Sigma e-\pi n$ evts: <u>12916</u>	COIN pretrig: <u>194</u> k ☒ Data ok ☐ Junk
Comments:							

p(e,e' π)n Run Sheet

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Date: 21 / 12 / 13
yy mm dd

Initials: MB

Continuation of Configuration:

Q² = 6 GeV² W = 2.4 GeV
low E LD + SHMS n_hh_L

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

Run Number: 13943	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 21=02 Stop time (RC GUI): 27=03	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 277 k $e-\pi n$ evts: 816	SHMS prescale pretrig: 423 k $\Sigma e-\pi n$ evts: 13732	COIN pretrig: 205 k ☐ Data ok ☐ Junk
Comments:							

Run Number: 13944	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 22=04 Stop time (RC GUI): 28=05	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 259 k $e-\pi n$ evts: 737	SHMS prescale pretrig: 395 k $\Sigma e-\pi n$ evts: 14469	COIN pretrig: 194 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13945	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 23=06 Stop time (RC GUI): 00=01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 190 k $e-\pi n$ evts: 527	SHMS prescale pretrig: 288 k $\Sigma e-\pi n$ evts: 14996	COIN pretrig: 147 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13946	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 00=09 Stop time (RC GUI): 01=02	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 278 k $e-\pi n$ evts: 768	SHMS prescale pretrig: 425 k $\Sigma e-\pi n$ evts: 15764	COIN pretrig: 205 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13947	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01=02 Stop time (RC GUI): 02=01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 191 k $e-\pi n$ evts: 568	SHMS prescale pretrig: 291 k $\Sigma e-\pi n$ evts: 16332	COIN pretrig: 150 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13948	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02=01 Stop time (RC GUI): 03=00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 275 k $e-\pi n$ evts: 763	SHMS prescale pretrig: 419 k $\Sigma e-\pi n$ evts: 17095	COIN pretrig: 202 k ☒ Data ok ☐ Junk
Comments:							

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Date: 21/12/14
yy mm dd

Initials: AU

Continuation of Configuration:

$Q^2 = 6.0$, $W = 2.4$
low ϵ , SHMS right

LD+, LH+

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

Run Number: 13949	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: 7 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / hdc	Start time (RC GUI): 03-01 Stop time (RC GUI): 03-58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 262 k HMS pretrig: e-πn evts: 743	SHMS prescale: 401 k SHMS pretrig: Σ e-πn evts: 17838	COIN pretrig: 194 k ☒ Data ok ☐ Junk
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Run Number: 13950	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / hdc	Start time (RC GUI): 04:09 Stop time (RC GUI): 05-09	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 213 k HMS pretrig: e-πn evts: 720	SHMS prescale: 420 k SHMS pretrig: Σ e-πn evts: 4720	COIN pretrig: 76 k ☒ Data ok ☐ Junk
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LH2 Running from here

Run Number: 13951	☒ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05-10 Stop time (RC GUI): 05-12	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale: / k HMS pretrig: / e-πn evts: /	SHMS prescale: / k SHMS pretrig: / Σ e-πn evts: /	COIN pretrig: / k ☐ Data ok ☐ Junk
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FADC MODE 10 Run

Run Number: 13952	☒ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05-13 Stop time (RC GUI): 06-16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 218 k HMS pretrig: e-πn evts: 773	SHMS prescale: 430 k SHMS pretrig: Σ e-πn evts: 1493	COIN pretrig: 77 k ☒ Data ok ☐ Junk
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Run Number: 13953	☒ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06-17 Stop time (RC GUI): 07-16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 207 k HMS pretrig: e-πn evts: 714	SHMS prescale: 408 k SHMS pretrig: Σ e-πn evts: 2207	COIN pretrig: 74 k ☒ Data ok ☐ Junk
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Run Number: 13954	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07-17 Stop time (RC GUI): 08-15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: 200 k HMS pretrig: e-πn evts: 662	SHMS prescale: 392 k SHMS pretrig: Σ e-πn evts: 2869	COIN pretrig: 72 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: 12/14/2021
yy mm dd

Initials: P.S.

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.4$
low E , sum5 right

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

Run Number: 13955	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 08:17 Stop time (RC GUI): 09:02	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 125 k $e-\pi n$ evts: 448	SHMS prescale pretrig: 244 k $\Sigma e-\pi n$ evts: 3317	COIN pretrig: 50 k ☒ Data ok ☐ Junk
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Run Number: 13956	☐ 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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carbon hole check

Run Number: 13957	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:51 Stop time (RC GUI): 16:55	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 223 k $e-\pi n$ evts: 744	SHMS prescale pretrig: 441 k $\Sigma e-\pi n$ evts: 4061	COIN pretrig: 80 k ☒ Data ok ☐ Junk
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Run Number: 13958	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 2 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:56 Stop time (RC GUI): 17:55	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 202 k $e-\pi n$ evts: 729	SHMS prescale pretrig: 220 k $\Sigma e-\pi n$ evts: 4790	COIN pretrig: 77 k ☒ Data ok ☐ Junk
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Run Number: 13959	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 2 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:56 Stop time (RC GUI): 18:48	☐ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 605 k $e-\pi n$ evts: 744	SHMS prescale pretrig: 204 k $\Sigma e-\pi n$ evts: 5534	COIN pretrig: 69 k ☒ Data ok ☐ Junk
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no BPM epics information on both HMS and SHMS screen info ok looking why

Run Number: 13960	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 2 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:48 Stop time (RC GUI): 19:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 508 k $e-\pi n$ evts: 332	SHMS prescale pretrig: 97 k $\Sigma e-\pi n$ evts: 5866	COIN pretrig: 38 k ☒ Data ok ☐ Junk
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epics ok but had to run the 50k twice, it was not coming up

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

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

Date: 21 / 12 / 14
yy mm dd

Initials: NB

Continuation of Configuration:

$Q^2=6$ $W=2.4$
low Q SHMS right

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

Run Number: 13961	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 19:22 Stop time (RC GUI): 20:27	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 265 k $e-\pi n$ evts: 845	SHMS prescale pretrig: 243 k $\Sigma e-\pi n$ evts: 6711	COIN pretrig: 85 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13962	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 20:27 Stop time (RC GUI): 21:19	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 194 k $e-\pi n$ evts: 634	SHMS prescale pretrig: 193 k $\Sigma e-\pi n$ evts: 7345	COIN pretrig: 63 k ☒ Data ok ☐ Junk
Comments: had to do 3x 50k replay to get them							

Run Number: 13963	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 21:20 Stop time (RC GUI): 22:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 185 k $e-\pi n$ evts: 632	SHMS prescale pretrig: 187 k $\Sigma e-\pi n$ evts: 7977	COIN pretrig: 72 k ☐ Data ok ☐ Junk
Comments: SHMS 50k replay worked at 5th attempt							

Run Number: 13964	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 22:20 Stop time (RC GUI): 22:34	☒ 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: 13965 also junk no beam							

Run Number: 13966	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 00:41 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: no beam							

Run Number: 13967	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 01:05 Stop time (RC GUI): 02:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 128 k $e-\pi n$ evts: 407	SHMS prescale pretrig: 128 k $\Sigma e-\pi n$ evts: 8384	COIN pretrig: 59 k ☒ Data ok ☐ Junk
Comments: Bad beam just 15 minutes							

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

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

Date: 21/12/15
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 6.0$

$W = 2.4$

low ϵ

SHMS Right

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

Run Number: <u>13968</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>02:05</u> Stop time (RC GUI): <u>03:05</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>89</u> k pretrig: _____ $e-\pi n$ evts: <u>282</u>	SHMS prescale <u>86</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>9666</u>	COIN pretrig: <u>51</u> k ☒ Data ok ☐ Junk
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Beam down for a bit

Run Number: <u>13969</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>03:05</u> Stop time (RC GUI): <u>04:06</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>222</u> k pretrig: _____ $e-\pi n$ evts: <u>727</u>	SHMS prescale <u>221</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>9393</u>	COIN pretrig: <u>77</u> k ☒ Data ok ☐ Junk
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Run Number: <u>13970</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>04:07</u> Stop time (RC GUI): <u>05:15</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>215</u> k pretrig: _____ $e-\pi n$ evts: <u>766</u>	SHMS prescale <u>214</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>10159</u>	COIN pretrig: <u>80</u> k ☒ Data ok ☐ Junk
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Run Number: <u>13971</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>05:15</u> Stop time (RC GUI): <u>06:08</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>176</u> k pretrig: _____ $e-\pi n$ evts: <u>633</u>	SHMS prescale <u>175</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>10792</u>	COIN pretrig: <u>64</u> k ☒ Data ok ☐ Junk
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Run Number: <u>13972</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>06:08</u> Stop time (RC GUI): <u>07:08</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>214</u> k pretrig: _____ $e-\pi n$ evts: <u>764</u>	SHMS prescale <u>213</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>11556</u>	COIN pretrig: <u>76</u> k ☒ Data ok ☐ Junk
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Run Number: <u>13973</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>07:09</u> Stop time (RC GUI): <u>08:11</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>195</u> k pretrig: _____ $e-\pi n$ evts: <u>648</u>	SHMS prescale <u>194</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>12204</u>	COIN pretrig: <u>73</u> k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 21/12/15
yy mm dd

Initials: CEH

Continuation of Configuration:

$$\alpha^2 = 60$$

$$W = 2.4$$

Low Σ

SHMS Right

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

Run Number: 13974	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 08:13 Stop time (RC GUI): 09:11	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 206 k $e-\pi n$ evts: 694	SHMS prescale pretrig: 206 k $\Sigma e-\pi n$ evts: 12898	COIN pretrig: 73 k ☒ Data ok ☐ Junk
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Comments: **Production**

Run Number: 13975	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 09:12 Stop time (RC GUI): 10:12	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 238 k $e-\pi n$ evts: 796	SHMS prescale pretrig: 236 k $\Sigma e-\pi n$ evts: 13694	COIN pretrig: 86 k ☒ Data ok ☐ Junk
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Comments: **Production**

Run Number: 13976	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 10:24 Stop time (RC GUI): 11:26	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 203 k $e-\pi n$ evts: 687	SHMS prescale pretrig: 202 k $\Sigma e-\pi n$ evts: 14381	COIN pretrig: 74 k ☒ Data ok ☐ Junk
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Comments:

Run Number: 13977	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 11:27 Stop time (RC GUI): 12:34	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 184 k $e-\pi n$ evts: 613	SHMS prescale pretrig: 179 k $\Sigma e-\pi n$ evts: 14994	COIN pretrig: 73 k ☐ Data ok ☐ Junk
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Comments: **SHMS = 9.111°**

Run Number: 13978	☐ 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>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): 12:35 Stop time (RC GUI): 12:48	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 190 k $e-\pi n$ evts: 67	SHMS prescale pretrig: 20 k $\Sigma e-\pi n$ evts: 15061	COIN pretrig: 11 k ☐ Data ok ☐ Junk
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Comments: **change PS 3/4** **short test run**

Run Number: 13979	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): 12:50 Stop time (RC GUI): 1:04	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 148 k $e-\pi n$ evts: 58	SHMS prescale pretrig: 16 k $\Sigma e-\pi n$ evts: 15119	COIN pretrig: 11 k ☐ Data ok ☐ Junk
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Comments: **change PS 3/4** **Beam off for at least 3 min**

p(e,e'π)n Run Sheet

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

Date: 15/12/15
yy mm dd

Initials: _____

Continuation of Configuration:

$$Q^2 = 6.0$$

$$W = 2.4$$

Low E

SHMS right

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

Run Number: 13980	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: 5 PS4: -1 PS5: -1 PS6: 8 Mode10: cer / fadc	Start time (RC GUI): 13:51 Stop time (RC GUI): 14:55	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 2452 k e-πn evts: 785	SHMS prescale pretrig: 228 k Σ e-πn evts: 15904	COIN pretrig: 381 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13981	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 4 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:56 Stop time (RC GUI): 15:55	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 265 k e-πn evts: 643	SHMS prescale pretrig: 265 k Σ e-πn evts: 16547	COIN pretrig: 70 k ☒ Data ok ☐ Junk
Comments: Reset PS							

Run Number: 13982	☒ 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): 15:56 Stop time (RC GUI): 16:08	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 49 k e-πn evts: 158	SHMS prescale pretrig: 49 k Σ e-πn evts: 16705	COIN pretrig: 71 k ☒ Data ok ☐ Junk
Comments: short = changing configuration							

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-πn evts:	SHMS prescale pretrig: k Σ e-πn 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-πn evts:	SHMS prescale pretrig: k Σ e-πn 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-πn evts:	SHMS prescale pretrig: k Σ e-πn 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/

Use a separate sheet for each configuration.

Date: 21.12.15
yy mm dd

Initials: MB

HMS

SHMS

Configuration Name: _____

$q^2 = 6$ $W = 2.4$ LH2
low q SHMS ~~center~~
CENTER ANGLE

$E_{\text{beam}} = 7.9$ GeV $I_{\text{beam}} = 70$ μA

HMS
 $p: \pm 5.512$ $\theta(\text{TV}): 34.58$
From GUI Nearest 0.005

SHMS
 $p: \pm 7.139$ $\theta(\text{TV}): 11.2$
From GUI Nearest 0.005

Collimator: HMS: Large ☐ Sieve ☐ SHMS: Collim ☐ Sieve ☐

Purpose:

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

Raster: ☒ On ☐ Off
Size: 9×7

Beam position and angle on target:

3H07A	X	Y
0.194 mm	0.016 mm	
Nomin:	Nomin:	
3H07C	X	Y
Nomin:	Nomin:	

Q1	I-SET (from PSU) B-HALL 278.87	A	I-SET (from PSU) B-HALL 185.95	A	HB
	0.37	T	18.743	kG	
Q2	I-SET (from PSU) B-HALL 221.49	A	I-SET (from PSU) B-HALL 1157.08	A	Q1
	0.407	T	8.234	kG	
Q3	I-SET (from PSU) B-HALL 107.59	A	I-SET (from PSU) B-HALL 1943.56	A	Q2
	0.212	T	18.309	kG	
D	I-READ B-NMR 653.91	A	I-SET (from PSU) B-HALL 1278.68	A	Q3
	0.585	T	12.44	kG	
If momentum increased:		I-SET (from PSU) B-NMR 1758.32		A	D
☐ HMS cycled? ☐ SHMS cycled?		12.756		kG	

Run Number: 13983	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 4 PS4: 0 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): $16=14$ Stop time (RC GUI): $17=18$	☒ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 196 k $e-\pi n$ evts: 762	SHMS prescale pretrig: 106 k $\Sigma e-\pi n$ evts: 769	COIN pretrig: 57 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13984	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 4 PS4: 0 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): $17=19$ Stop time (RC GUI): $18=18$	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 169 k $e-\pi n$ evts: 641	SHMS prescale pretrig: 69 k $\Sigma e-\pi n$ evts: 1403	COIN pretrig: 51 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 13985	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 4 PS4: 0 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): $18=18$ Stop time (RC GUI): $19=26$	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 179 k $e-\pi n$ evts: 694	SHMS prescale pretrig: 73 k $\Sigma e-\pi n$ evts: 2097	COIN pretrig: 58 k ☒ Data ok ☐ Junk
lots of trips							

Run Number: 13986	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: 2 PS4: 0 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): $19=30$ Stop time (RC GUI): $20=36$	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 578 k $e-\pi n$ evts: 772	SHMS prescale pretrig: 79 k $\Sigma e-\pi n$ evts: 286	COIN pretrig: 58 k ☒ Data ok ☐ Junk
Had to Restart code lot of trips prescale SHMS to 2							

p(e,e π)n Run Sheet

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

Date: 2/12/15
yy mm dd

Initials: RB

Continuation of Configuration:

$Q^2 = 6$ $W = 2.4$ LH2
low Σ SHMS ~~COIN~~ CENTER

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

Run Number: 13987	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ ____cm	PS1: 13 PS2: ____ PS3: ____ PS4: 2 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 20 = 36 Stop time (RC GUI): 21 = 51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 698 k $e-\pi n$ evts: 772 898	SHMS prescale pretrig: 95 k $\Sigma e-\pi n$ evts: 3767	COIN pretrig: 67 k ☒ Data ok ☐ Junk
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Run Number: 13988	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ ____cm	PS1: 13 PS2: ____ PS3: ____ PS4: 2 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 21 = 52 Stop time (RC GUI): 22 = 53	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 60 k $e-\pi n$ evts: 865	SHMS prescale pretrig: 90 k $\Sigma e-\pi n$ evts: 132	COIN pretrig: 57 k ☒ Data ok ☐ Junk
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Run Number: 13989	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ ____cm	PS1: 13 PS2: ____ PS3: ____ PS4: 1 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 22 = 53 Stop time (RC GUI): 4632	☐ 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: 13990	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ ____cm	PS1: 13 PS2: ____ PS3: ____ PS4: 1 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 22 = 55 Stop time (RC GUI): 23 = 47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 869 k $e-\pi n$ evts: 737	SHMS prescale pretrig: 79 k $\Sigma e-\pi n$ evts: 5369	COIN pretrig: 50 k ☒ Data ok ☐ Junk
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Run Number: 13991	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ ____cm	PS1: 13 PS2: ____ PS3: ____ PS4: 1 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 23 = 48 Stop time (RC GUI): 01:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 783 k $e-\pi n$ evts: 683	SHMS prescale pretrig: 71 k $\Sigma e-\pi n$ evts: 6052	COIN pretrig: 60 k ☒ Data ok ☐ Junk
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Run Number: 13992	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ ____cm	PS1: 13 PS2: ____ PS3: ____ PS4: 1 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 01:01 Stop time (RC GUI): Beam down	☒ 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: 21/12/16
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.4$ $LH2$

low ϵ SHMS Center

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

Run Number: 13993	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>1</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>01:20</u> Stop time (RC GUI): _____	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☒ Junk
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Beam down

Run Number: 13994	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>1</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>01:26</u> Stop time (RC GUI): <u>02:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>534</u> k $e-\pi n$ evts: <u>466</u>	SHMS prescale pretrig: <u>47</u> k $\Sigma e-\pi n$ evts: <u>6518</u>	COIN pretrig: <u>46</u> k ☒ Data ok ☐ Junk
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bad beam

Run Number: 13995	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>1</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>02:37</u> Stop time (RC GUI): <u>03:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>66</u> k $e-\pi n$ evts: <u>45</u>	SHMS prescale pretrig: <u>5</u> k $\Sigma e-\pi n$ evts: <u>6563</u>	COIN pretrig: <u>23</u> k ☒ Data ok ☐ Junk
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no beam for last chunk

Run Number: 13996	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>1</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>03:20</u> Stop time (RC GUI): <u>04:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>940</u> k $e-\pi n$ evts: <u>854</u>	SHMS prescale pretrig: <u>88</u> k $\Sigma e-\pi n$ evts: <u>7417</u>	COIN pretrig: <u>57</u> k ☒ Data ok ☐ Junk
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Run Number: 13997	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>1</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>04:20</u> Stop time (RC GUI): <u>05:25</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>999</u> k $e-\pi n$ evts: <u>893</u>	SHMS prescale pretrig: <u>91</u> k $\Sigma e-\pi n$ evts: <u>8310</u>	COIN pretrig: <u>60</u> k ☒ Data ok ☐ Junk
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Run Number: RR 13998	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>13</u> PS2: _____ PS3: _____ PS4: <u>1</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>05:26</u> Stop time (RC GUI): <u>05:39</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: <u>208</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: <u>8518</u>	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: 27 / 12 / 16
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.4$ $2H^2$

0.5% π SHMS center

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

Run Number: 13999	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 3 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 05:43 Stop time (RC GUI): 05:46	☒ 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:

FADC Mode 10, changed prescale because they were very off.

Run Number: 13999 14000	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 3 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 05:47 Stop time (RC GUI): 06:46	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 367 k $e-\pi n$ evts: 778	SHMS prescale pretrig: 335 k $\Sigma e-\pi n$ evts: 9296	COIN pretrig: 55 k ☒ Data ok ☐ Junk
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Comments:

Run Number: 14001	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 3 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 06:47 Stop time (RC GUI): 07:53	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 396 k $e-\pi n$ evts: 830	SHMS prescale pretrig: 361 k $\Sigma e-\pi n$ evts: 10126	COIN pretrig: 60 k ☒ Data ok ☐ Junk
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Comments:

Run Number: 14002	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: 5 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 07:54 Stop time (RC GUI): 9:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 299 k $e-\pi n$ evts: 935	SHMS prescale pretrig: 401 k $\Sigma e-\pi n$ evts: 11061	COIN pretrig: 65 k ☒ Data ok ☐ Junk
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Comments:

3/4 run

Run Number: 14003	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 09:07 Stop time (RC GUI): 10:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 374 k $e-\pi n$ evts: 774	SHMS prescale pretrig: 341 k $\Sigma e-\pi n$ evts: 11835	COIN pretrig: 60 k ☒ Data ok ☐ Junk
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Comments:

pre scaler reset

Run Number: 14004	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:16 Stop time (RC GUI): 11:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 308 k $e-\pi n$ evts: 672	SHMS prescale pretrig: 280 k $\Sigma e-\pi n$ evts: 12507	COIN pretrig: 853 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: 21/12/16
yy mm dd

Initials CE#

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.4$ LH2
Low E SHMS Center

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

Run Number: 14005	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 3 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 11:19 Stop time (RC GUI): 12:34	☐ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 447 k $e-\pi n$ evts: 999	SHMS prescale pretrig: 408 k $\Sigma e-\pi n$ evts: 13506	COIN pretrig: 69 k ☒ Data ok ☐ Junk
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Run Number: 14006	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 3 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 12:36 Stop time (RC GUI): 13:42	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 409 k $e-\pi n$ evts: 878	SHMS prescale pretrig: 374 k $\Sigma e-\pi n$ evts: 14384	COIN pretrig: 61 k ☒ Data ok ☐ Junk
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Run Number: 14007	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 3 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 13:43 Stop time (RC GUI): 14:41	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 133 k $e-\pi n$ evts: 280	SHMS prescale pretrig: 117 k $\Sigma e-\pi n$ evts: 14664	COIN pretrig: 42 k ☒ Data ok ☐ Junk
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Run Number: 14008	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:05 Stop time (RC GUI): 16:05	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 384 k $e-\pi n$ evts: 827	SHMS prescale pretrig: 352 k $\Sigma e-\pi n$ evts: 15491	COIN pretrig: 56 k ☒ Data ok ☐ Junk
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Run Number: 14009	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:05 Stop time (RC GUI): 17:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 323 k $e-\pi n$ evts: 681	SHMS prescale pretrig: 295 k $\Sigma e-\pi n$ evts: 16172	COIN pretrig: 53 k ☒ Data ok ☐ Junk
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Run Number: 14010	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:05 Stop time (RC GUI): 17:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 376 k $e-\pi n$ evts: 839	SHMS prescale pretrig: 344 k $\Sigma e-\pi n$ evts: 17011	COIN pretrig: 56 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 / 12 / 16
yy mm dd

Initials: P.S.

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.7$ LHz
Low E spins center

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

Run Number: 24011	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: 3 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:06 Stop time (RC GUI): 18:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 135 k $e-\pi n$ evts: 288	SHMS prescale pretrig: 122 k $\Sigma e-\pi n$ evts: 17999	COIN pretrig: 31 k ☒ Data ok ☐ Junk
Comments: Almost no beam							

Run Number: 14012	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:05 Stop time (RC GUI): 20:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 297 k $e-\pi n$ evts: 676	SHMS prescale pretrig: 270 k $\Sigma e-\pi n$ evts: 17975	COIN pretrig: 52 k ☒ Data ok ☐ Junk
Comments: Trippy beam first 10 mins							

Run Number: 14013	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:05 Stop time (RC GUI): 21:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 387 k $e-\pi n$ evts: 838	SHMS prescale pretrig: 355 k $\Sigma e-\pi n$ evts: 18813	COIN pretrig: 56 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14014	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:05 Stop time (RC GUI): 22:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 369 k $e-\pi n$ evts: 819	SHMS prescale pretrig: 337 k $\Sigma e-\pi n$ evts: 19632	COIN pretrig: 55 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14015	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 22:05 Stop time (RC GUI): 22:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 202 k $e-\pi n$ evts: 431	SHMS prescale pretrig: 186 k $\Sigma e-\pi n$ evts: 20063	COIN pretrig: 28 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14016	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 8 PS2: -1 PS3: -1 PS4: 1 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:48 Stop time (RC GUI): 23:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 208 k $e-\pi n$ evts: 25	SHMS prescale pretrig: 298 k $\Sigma e-\pi n$ evts:	COIN pretrig: 29 k ☒ Data ok ☐ Junk
Comments:							

116 Hz
80 Hz

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

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

Date: 21 / 12 / 16
yy mm dd

Initials: P.S.

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.4$ $LD2$
Low E SMMYS center

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

Run Number: <u>14017</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>8</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:37</u> Stop time (RC GUI): <u>00:12</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>145</u> k pretrig: <u>408</u> $e-\pi n$ evts: <u>12</u>	SHMS prescale: <u>208</u> k pretrig: <u>208</u> $\Sigma e-\pi n$ evts:	COIN pretrig: <u>21</u> k ☒ Data ok ☐ Junk
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confirm

Run Number: <u>14018</u>	☒ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>17</u> PS2: _____ PS3: _____ PS4: <u>3</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>02:36</u> Stop time (RC GUI): <u>03:38</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>884</u> k pretrig: <u>884</u> $e-\pi n$ evts: <u>567</u> <u>905</u>	SHMS prescale: <u>685</u> k pretrig: <u>685</u> $\Sigma e-\pi n$ evts: <u>567</u> <u>905</u>	COIN pretrig: <u>168</u> k ☒ Data ok ☐ Junk
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Prescales unchanged

Run Number: <u>14019</u>	☒ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>17</u> PS2: _____ PS3: _____ PS4: <u>3</u> PS5: <u>8</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>03:39</u> Stop time (RC GUI): <u>04:34</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>825</u> k pretrig: <u>825</u> $e-\pi n$ evts: <u>556</u> <u>862</u>	SHMS prescale: <u>641</u> k pretrig: <u>641</u> $\Sigma e-\pi n$ evts: <u>1123</u> <u>1367</u>	COIN pretrig: <u>100</u> k ☒ Data ok ☐ Junk
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Prescales unchanged

Run Number: <u>14020</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>6</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>05:15</u> Stop time (RC GUI): <u>05:34</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>161</u> k pretrig: <u>161</u> $e-\pi n$ evts: <u>189</u> <u>282</u>	SHMS prescale: <u>112</u> k pretrig: <u>112</u> $\Sigma e-\pi n$ evts: <u>181</u> <u>3049</u>	COIN pretrig: <u>35</u> k ☒ Data ok ☐ Junk
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DAQ didn't start properly, updated prescaler to hit 100 better

Run Number: <u>14021</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>6</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>05:35</u> Stop time (RC GUI): <u>06:35</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>503</u> k pretrig: <u>503</u> $e-\pi n$ evts: <u>632</u> <u>946</u>	SHMS prescale: <u>352</u> k pretrig: <u>352</u> $\Sigma e-\pi n$ evts: <u>1944</u> <u>2995</u>	COIN pretrig: <u>110</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14022</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>6</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>06:36</u> Stop time (RC GUI): <u>07:35</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>426</u> k pretrig: <u>426</u> $e-\pi n$ evts: <u>586</u> <u>887</u>	SHMS prescale: <u>297</u> k pretrig: <u>297</u> $\Sigma e-\pi n$ evts: <u>2538</u> <u>3882</u>	COIN pretrig: <u>97</u> 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: 21/12/17
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.4$ LD^*

low ϵ

SHMS Cuts

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

Run Number: <u>14023</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>07:35</u> Stop time (RC GUI): <u>08:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: <u>821</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: <u>82703</u>	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number: <u>14024</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>8:37</u> Stop time (RC GUI): <u>8:39</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>18</u> k $e-\pi n$ evts: <u>42</u>	SHMS prescale pretrig: <u>13</u> k $\Sigma e-\pi n$ evts: <u>4745</u>	COIN pretrig: <u>4</u> k ☒ Data ok ☐ Junk
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FADC Mode 10

Run Number: <u>14026</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: <u>6</u> PS4: _____ PS5: _____ PS6: <u>8</u> Mode10: cer / fadc	Start time (RC GUI): <u>8:43</u> Stop time (RC GUI): <u>9:44</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: <u>987</u>	SHMS prescale pretrig: <u>364</u> k $\Sigma e-\pi n$ evts: <u>5732</u>	COIN pretrig: <u>112</u> k ☒ Data ok ☐ Junk
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14026 Sunk due to code crash

3/4 Run

Run Number: <u>14027</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>9:55</u> Stop time (RC GUI): <u>10:49</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>490</u> k $e-\pi n$ evts: <u>1004</u>	SHMS prescale pretrig: <u>343</u> k $\Sigma e-\pi n$ evts: <u>6736</u>	COIN pretrig: <u>110</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14028</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>10:49</u> Stop time (RC GUI): <u>11:53</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>425</u> k $e-\pi n$ evts: <u>832</u>	SHMS prescale pretrig: <u>296</u> k $\Sigma e-\pi n$ evts: <u>7568</u>	COIN pretrig: <u>99</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14029</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>12</u> PS2: _____ PS3: _____ PS4: <u>4</u> PS5: <u>0</u> PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>11:54</u> Stop time (RC GUI): <u>12:54</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>478</u> k $e-\pi n$ evts: <u>874</u>	SHMS prescale pretrig: <u>335</u> k $\Sigma e-\pi n$ evts: <u>8442</u>	COIN pretrig: <u>106</u> 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: 21/12/17
yy mm dd

Initials: NH

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.4$ W^x
low E SHMS center 11.12^0

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

Run Number: 14030	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): 12:54 Stop time (RC GUI): 13:54	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 485 k $e-\pi n$ evts: 897	SHMS prescale pretrig: 340 k $\Sigma e-\pi n$ evts: 9339	COIN pretrig: 106 k ☒ Data ok ☐ Junk
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Run Number: 14031	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): 13:55 Stop time (RC GUI): 14:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 416 k $e-\pi n$ evts: 825	SHMS prescale pretrig: 291 k $\Sigma e-\pi n$ evts: 10164	COIN pretrig: 98 k ☒ Data ok ☐ Junk
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Run Number: 14032	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): 14:58 Stop time (RC GUI): 15:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts: 819	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts: 10983	COIN pretrig: ____ k ☒ Data ok ☐ Junk
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Run Number: 14033	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): 15:58 Stop time (RC GUI): 16:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 432 k $e-\pi n$ evts: 868	SHMS prescale pretrig: 303 k $\Sigma e-\pi n$ evts: 11851	COIN pretrig: 100 k ☒ Data ok ☐ Junk
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Run Number: 14034	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): 17:00 Stop time (RC GUI): 18:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 457 k $e-\pi n$ evts: 813	SHMS prescale pretrig: 320 k $\Sigma e-\pi n$ evts: 12664	COIN pretrig: ____ k ☒ Data ok ☐ Junk
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Run Number: 14035	☐ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): 18:00 Stop time (RC GUI): 19:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 500 k $e-\pi n$ evts: 935	SHMS prescale pretrig: 351 k $\Sigma e-\pi n$ evts: 13,599	COIN pretrig: 109 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: 21/12/17
yy mm dd

Initials: PS

Continuation of Configuration:

$Q^2 = 6.0$

$W = 2.4$

LDx

low E

SWMS center 11.120

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

Run Number: 14036	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 19:01 19:01 Stop time (RC GUI): 20:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 462 k $e-\pi n$ evts: 843	SHMS prescale pretrig: 324 k $\Sigma e-\pi n$ evts: 14442	COIN pretrig: 103 k ☒ Data ok ☐ Junk
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Run Number: 14037	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:00 Stop time (RC GUI): 21:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 846	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: 15318	COIN pretrig: k ☒ Data ok ☐ Junk
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Run Number: 14038	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:00 Stop time (RC GUI): 22:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 378 k $e-\pi n$ evts: 734	SHMS prescale pretrig: 264 k $\Sigma e-\pi n$ evts: 16052	COIN pretrig: 89 k ☒ Data ok ☐ Junk
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last 10 minutes - current dropped to $\sim 10 \mu A$.

Run Number: 14039	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:00 Stop time (RC GUI): 22:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 92 k $e-\pi n$ evts: 178	SHMS prescale pretrig: 63 k $\Sigma e-\pi n$ evts: 16230	COIN pretrig: 42 k ☒ Data ok ☐ Junk
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Beam went off at $\sim 22:10$

Run Number: 14040	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:30 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 off immediately

Run Number: 14041	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:52 Stop time (RC GUI): 02:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 441 k $e-\pi n$ evts: 853	SHMS prescale pretrig: 310 k $\Sigma e-\pi n$ evts: 17,083	COIN pretrig: 100 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: 24 / 12 / 18
yy mm dd

Initials: SJ

Continuation of Configuration:

$$Q^2 = 6.0 \quad W = 2.4 \quad LD_2$$

low ϵ SHMS 11.120

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

Run Number: 14042	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: 4 PS4: 0 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:52 Stop time (RC GUI): 03:54	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 471 k $e-\pi n$ evts: 904	SHMS prescale pretrig: 332 k $\Sigma e-\pi n$ evts: 17987	COIN pretrig: 106 k ☒ Data ok ☐ Junk
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Run Number: 14043	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: 4 PS4: 0 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:55 Stop time (RC GUI): 04:55	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 435 k $e-\pi n$ evts: 865	SHMS prescale pretrig: 306 k $\Sigma e-\pi n$ evts: 18852	COIN pretrig: 100 k ☒ Data ok ☐ Junk
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Run Number: 14044	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: 4 PS4: 0 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:56 Stop time (RC GUI): 05:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 246 k $e-\pi n$ evts: 444	SHMS prescale pretrig: 172 k $\Sigma e-\pi n$ evts: 19296	COIN pretrig: 57 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: 21/12/18
yy mm dd

Initials: SJ

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name:
 $Q^2=6.0$ $W=2.4$ U_2
 600 E SHMS 13.12

$E_{\text{beam}}: 7.95\text{ GeV}$ $I_{\text{beam}}: 70\text{ }\mu\text{A}$

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
-0.5	mm	0.005
Nomin:		
3H07C	X	Y
-0.9	mm	0.5
Nomin:		

HMS
 $p: +2.1390$ $\theta(\text{TV}): 35.58$
From GUI Nearest 0.005

SHMS
 $p: -5.512$ $\theta(\text{TV}): 13.12$
From GUI Nearest 0.005

Collimator: HMS: Large ☒ Sieve ☐ SHMS: Collim ☒ Sieve ☐

Q1	I-SET (from PSU) 278.86 B-HALL 0.36520 T	A	I-SET (from PSU) 1845.95 B-HALL -11.745 T	A	HB
Q2	I-SET (from PSU) 221.48 B-HALL -0.40634 T	A	I-SET (from PSU) 1152.08 B-HALL 8.232 T	A	Q1
Q3	I-SET (from PSU) 107.59 B-HALL 0.21212 T	A	I-SET (from PSU) 1943.52 B-HALL -18.311 T	A	Q2
D	I-READ 653.94 B-NMR 0.58547 T	A	I-SET (from PSU) 1278.72 B-HALL -12.421 T	A	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?		I-SET (from PSU) 1758.40 B-NMR 12.756 T		D

Run Number: 14045	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:39 Stop time (RC GUI): 06:39	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 228 k $e-\pi n$ evts: 748	SHMS prescale pretrig: 257 k $\Sigma e-\pi n$ evts: 748	COIN pretrig: 66 k ☒ Data ok ☐ Junk
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Run Number: 14046	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:42 Stop time (RC GUI): 06:44	☒ 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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fadc mode10

Run Number: 14047	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: 5 PS4: -1 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 06:51 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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HMS 3/4 Trigger Run

prescale at beam trip

Run Number: 14048	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: 7 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 07:04 Stop time (RC GUI): 08:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 3376 k $e-\pi n$ evts: 607	SHMS prescale pretrig: 224 k $\Sigma e-\pi n$ evts: 1355	COIN pretrig: 61 k ☒ Data ok ☐ Junk
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HMS 3/4 Trigger Run

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

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

Date: 21 12 18
yy mm dd

Initials: AU

Continuation of Configuration:

$Q^2 = 6.0$, $W = 2.4$ LD+
low ϵ , SHMS left

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

Run Number: 14049	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 08-07 Stop time (RC GUI): 08-25	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: / k $e-\pi n$ evts: /	SHMS prescale pretrig: / k $\Sigma e-\pi n$ evts: /	COIN pretrig: / k ☐ Data ok ☒ Junk
Comments: JUNK Run (Terrible beam)							

Run Number: 14050	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 08-40 Stop time (RC GUI): 09-39	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 143 k $e-\pi n$ evts: 392	SHMS prescale pretrig: 159 k $\Sigma e-\pi n$ evts: 1747	COIN pretrig: 53 k ☒ Data ok ☐ Junk
Comments: Unstable beam							

Run Number: 14051	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10-03 Stop time (RC GUI): 11-07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 291 k $e-\pi n$ evts: 874	SHMS prescale pretrig: 329 k $\Sigma e-\pi n$ evts: 2621	COIN pretrig: 78 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14052	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11-08 Stop time (RC GUI): 12-07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 218 k $e-\pi n$ evts: 666	SHMS prescale pretrig: 246 k $\Sigma e-\pi n$ evts: 3287	COIN pretrig: 64 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14053	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12-07 Stop time (RC GUI): 13-05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 136 k $e-\pi n$ evts: 451	SHMS prescale pretrig: 153 k $\Sigma e-\pi n$ evts: 3738	COIN pretrig: 53 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14054	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13-33 Stop time (RC GUI): 14-33	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 151 k $e-\pi n$ evts: 489	SHMS prescale pretrig: 171 k $\Sigma e-\pi n$ evts: 4227	COIN pretrig: 56 k ☒ Data ok ☐ Junk
Comments:							

p(e,e' π)n Run Sheet

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

Date: 21, 12, 18
yy mm dd

Initials: A/S

Continuation of Configuration:

$Q^2 = 6.0$, $W = 2.40$

low ϵ , SHMS left (LD+)

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

Run Number: 14055	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14-34 Stop time (RC GUI): 14-56	☒ 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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Junk Run (No beam > 15 mins)

Run Number: 14056	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15-17 Stop time (RC GUI): 16:18:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 167 k $e-\pi n$ evts: 523	SHMS prescale pretrig: 188 k $\Sigma e-\pi n$ evts: 4750	COIN pretrig: 58 k ☒ Data ok ☐ Junk
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beam off at end of run

Run Number: 14057	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:30:13 Stop time (RC GUI): 17:30:33	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 187 k $e-\pi n$ evts: 565	SHMS prescale pretrig: 211 k $\Sigma e-\pi n$ evts: 5315	COIN pretrig: 61 k ☒ Data ok ☐ Junk
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Run Number: 14058	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:31:58 Stop time (RC GUI): 18:32:42	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 268 k $e-\pi n$ evts: 811	SHMS prescale pretrig: 304 k $\Sigma e-\pi n$ evts: 6126	COIN pretrig: 73 k ☒ Data ok ☐ Junk
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Run Number: 14059	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:33:14 Stop time (RC GUI): 19:33:36	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 272 k $e-\pi n$ evts: 858	SHMS prescale pretrig: 309 k $\Sigma e-\pi n$ evts: 6984	COIN pretrig: 73 k ☒ Data ok ☐ Junk
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Run Number: 14060	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:34:07 Stop time (RC GUI): 20:02:02	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 116	SHMS prescale pretrig: 45 k $\Sigma e-\pi n$ evts: 7100	COIN pretrig: 22 k ☒ Data ok ☐ Junk
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SHORT RUN 2L18 DROPPED VOLTAGE (HIGH T) $\rightarrow$ PAGEG RFE-ON CALL

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

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

Date: 21/12/18
yy mm dd

Initials: SCA

Continuation of Configuration:

$Q^2 = 6.0$, $W = 2.4$ LD^*
low Σ , SHMS left

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

Run Number: 14061	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 20:43:29 Stop time (RC GUI): 21:43:49	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 240 k $e-\pi n$ evts: 722	SHMS prescale pretrig: 272 k $\Sigma e-\pi n$ evts: 7822	COIN pretrig: 69 k ☒ Data ok ☐ Junk
Comments: HALLA STARTED RUNNING , TRIP RATE ~ 15-16 (was 7-8 before)							

Run Number: 14062	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 21:44:30 Stop time (RC GUI): 22:43:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 245 k $e-\pi n$ evts: 773	SHMS prescale pretrig: 278 k $\Sigma e-\pi n$ evts: 8595	COIN pretrig: 68 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14063	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 22:44:46 Stop time (RC GUI): 23:43:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 238 k $e-\pi n$ evts: 730	SHMS prescale pretrig: 270 k $\Sigma e-\pi n$ evts: 9325	COIN pretrig: 67 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14064	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 23:45:30 Stop time (RC GUI): 00:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 246 k $e-\pi n$ evts: 763	SHMS prescale pretrig: 279 k $\Sigma e-\pi n$ evts: 10088	COIN pretrig: 69 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14065	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 00:45 Stop time (RC GUI): 01:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 248 k $e-\pi n$ evts: 772	SHMS prescale pretrig: 282 k $\Sigma e-\pi n$ evts: 10860	COIN pretrig: 69 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14066	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer/fadc	Start time (RC GUI): 01:45 Stop time (RC GUI): 02:46	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 232 k $e-\pi n$ evts: 698	SHMS prescale pretrig: 263 k $\Sigma e-\pi n$ evts: 11358 11558	COIN pretrig: 68 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 21/12/19
yy mm dd

Initials: SJ

Continuation of Configuration:

$Q^2=6$ $W=2.4$ LD_2
low ϵ SHMS Lot 4

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

Run Number: 14067	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:47 Stop time (RC GUI): 03:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 244 k $e-\pi n$ evts: 722	SHMS prescale pretrig: 278 k $\Sigma e-\pi n$ evts: 12280	COIN pretrig: 69 k ☒ Data ok ☐ Junk
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Run Number: 14068	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:47 Stop time (RC GUI): 04:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 261 k $e-\pi n$ evts: 824	SHMS prescale pretrig: 298 k $\Sigma e-\pi n$ evts: 131084	COIN pretrig: 71 k ☒ Data ok ☐ Junk
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Run Number: 14069	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:47 Stop time (RC GUI): 05:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 242 k $e-\pi n$ evts: 691	SHMS prescale pretrig: 275 k $\Sigma e-\pi n$ evts: 13795	COIN pretrig: 68 k ☒ Data ok ☐ Junk
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Run Number: 14070	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:47 Stop time (RC GUI): 06:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 269 k $e-\pi n$ evts: 844	SHMS prescale pretrig: 306 k $\Sigma e-\pi n$ evts: 14639	COIN pretrig: 72 k ☒ Data ok ☐ Junk
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Run Number: 14071	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: -1 PS3: -1 PS4: 5 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 06:48 Stop time (RC GUI): 07:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 260 k $e-\pi n$ evts: 805	SHMS prescale pretrig: 296 k $\Sigma e-\pi n$ evts: 15444	COIN pretrig: 71 k ☐ Data ok ☐ Junk
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Run Number: 14072	☐ 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): 7:49 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 off

p(e,e'π)n Run Sheet

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

Date: 21/12/19
yy mm dd

Initials: NH/sc

Continuation of Configuration:

$Q^2=6$ $W=2.4$ LD^8
low E SHMS left

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

Run Number: 14073	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 5 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 8:26 Stop time (RC GUI): 9:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 121 k e-πn evts: 361	SHMS prescale pretrig: 137 k Σ e-πn evts: 15805	COIN pretrig: 36 k ☒ Data ok ☐ Junk
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Run Number: 14074	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 11 PS2: _____ PS3: _____ PS4: 6 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 13:39 Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k ☐ Data ok ☒ Junk
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Prescales wrong

Run Number: 14075	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: _____ PS3: _____ PS4: 1 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 13:41 Stop time (RC GUI): 14:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 254 k e-πn evts: 36	SHMS prescale pretrig: 341 k Σ e-πn evts:	COIN pretrig: 36 k ☒ Data ok ☐ Junk
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Run Number: 14076	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: _____ PS3: _____ PS4: 1 PS5: 0 PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 14:40 Stop time (RC GUI): 15:41	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 254 k e-πn evts: 45	SHMS prescale pretrig: 339 k Σ e-πn evts: 81	COIN pretrig: 37 k ☒ Data ok ☐ Junk
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Run Number: 14077	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 7 PS2: 1 PS3: 1 PS4: 1 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 15:42 Stop time (RC GUI): 16:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 118 k e-πn evts: 16	SHMS prescale pretrig: 158 k Σ e-πn evts: 97	COIN pretrig: 17 k ☒ Data ok ☐ Junk
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285k evts

Run Number: 14078	☒ 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): 16:18:07 Stop time (RC GUI): 17:20:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 183 k e-πn evts: 625	SHMS prescale pretrig: 252 k Σ e-πn evts: 625	COIN pretrig: 47 k ☒ Data ok ☐ Junk
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Started LH2 = LOOP2 runs

p(e,e' π)n Run Sheet

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

Date: 21/12/19
yy mm dd

Initials: SCD

Continuation of Configuration:

$Q^2 = 6.0$ $W = 2.7$ LHz
low E $\Theta_{\text{SKMS}} = 13.1^\circ$

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

Run Number: 140789	☒ 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): 17:20 Stop time (RC GUI): 18:22:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 222 k $e-\pi n$ evts: 777 777	SHMS prescale pretrig: 306 k $\Sigma e-\pi n$ evts: 1402 1402	COIN pretrig: 49 k ☒ Data ok ☐ Junk
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Run Number: 14080	☒ 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): 18:23:27 Stop time (RC GUI): 19:24:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 215 k $e-\pi n$ evts: 777 777	SHMS prescale pretrig: 297 k $\Sigma e-\pi n$ evts: 2181 2181	COIN pretrig: 48 k ☒ Data ok ☐ Junk
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Run Number: 14081	☒ 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): 19:25:01 Stop time (RC GUI): 19:53:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 65 k $e-\pi n$ evts: 162 162	SHMS prescale pretrig: 89 k $\Sigma e-\pi n$ evts: 2343 2343	COIN pretrig: 20 k ☒ Data ok ☐ Junk
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Short run, cavity dropped voltage (last 0 min of run had no beam).

Run Number: 14082	☒ 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): 19:59:29 Stop time (RC GUI): 20:59:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 211 k $e-\pi n$ evts: 2719 2719	SHMS prescale pretrig: 292 k $\Sigma e-\pi n$ evts: 3667 3667	COIN pretrig: 48 k ☒ Data ok ☐ Junk
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Run Number: 14083	☒ 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): 21:00:41 Stop time (RC GUI): 21:58:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 197 k $e-\pi n$ evts: 630 630	SHMS prescale pretrig: 272 k $\Sigma e-\pi n$ evts: 3692 3692	COIN pretrig: 45 k ☒ Data ok ☐ Junk
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Run Number: 14084	☒ 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): 21:59:37 Stop time (RC GUI): 23:00:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 217 k $e-\pi n$ evts: 752 752	SHMS prescale pretrig: 299 k $\Sigma e-\pi n$ evts: 4444 4444	COIN pretrig: 48 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 / 12 / 19
yy mm dd

Initials: Scb

Continuation of Configuration:

$Q^2 = 6.0$, $W = 2.4$, LH2
low ϵ , SHMS LEFT

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

Run Number: 14085	☒ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>23:00:37</u> Stop time (RC GUI): <u>00:00:15</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>214</u> k SHMS prescale <u>296</u> k $e-\pi n$ evts: <u>801</u> $\Sigma e-\pi n$ evts: <u>618</u>	COIN pretrig: <u>47</u> k ☒ Data ok ☐ Junk
Comments: 722 5166						

Run Number: 14086	☒ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>00:00:47</u> Stop time (RC GUI): <u>01:00</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>180</u> k SHMS prescale <u>208</u> k $e-\pi n$ evts: <u>788</u> 594 $\Sigma e-\pi n$ evts: <u>617</u> 6	COIN pretrig: <u>46</u> k ☐ Data ok ☐ Junk
Comments: 57604 Removing RF cut gave us 6176 e-pi						

Run Number: 14087	☒ 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>4</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>01:01</u> Stop time (RC GUI): <u>01:12</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale _____ k SHMS prescale _____ k $e-\pi n$ evts: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☒ Junk
Comments: No beam! ^{at all} Something wrong with beam						

Run Number: 14088	☒ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>10-29</u> Stop time (RC GUI): <u>10-32</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale _____ k SHMS prescale _____ k $e-\pi n$ evts: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
Comments: FADC MODE 10 Run						

Run Number: 14089	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>10-34</u> Stop time (RC GUI): <u>11-34</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>1752</u> k SHMS prescale <u>268</u> k $e-\pi n$ evts: <u>694</u> $\Sigma e-\pi n$ evts: <u>6870</u>	COIN pretrig: <u>47</u> k ☒ Data ok ☐ Junk
Comments:						

Run Number: 14090	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>5</u> PS4: <u>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>11-35</u> Stop time (RC GUI): <u>12-37</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>217</u> k SHMS prescale <u>300</u> k $e-\pi n$ evts: <u>796</u> $\Sigma e-\pi n$ evts: <u>7666</u>	COIN pretrig: <u>49</u> k ☒ Data ok ☐ Junk
Comments:						

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

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

Date: 21/12/20
yy mm dd

Initials: AV

Continuation of Configuration:

$Q^2 = 6.0$, $W = 2.40$

low ϵ , SHMS left

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

Run Number: 14091	☒ 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>4</u> PS5: <u>0</u> PS6: <u>0-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>12-38</u> Stop time (RC GUI): <u>13-35</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>183</u> k pretrig: $e-\pi n$ evts: <u>664</u>	SHMS prescale <u>253</u> k pretrig: $\Sigma e-\pi n$ evts: <u>8330</u>	COIN pretrig: <u>44</u> k ☒ Data ok ☐ Junk
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Run Number: 14092	☒ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>13-36</u> Stop time (RC GUI): <u>14-31</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>184</u> k pretrig: $e-\pi n$ evts: <u>685</u>	SHMS prescale <u>255</u> k pretrig: $\Sigma e-\pi n$ evts: <u>9015</u>	COIN pretrig: <u>43</u> k ☒ Data ok ☐ Junk
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Run Number: 14094	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>14-40</u> Stop time (RC GUI): <u>16-00</u>	☒ 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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BCM Calibration run $\Rightarrow$ done.

Run Number: 14095	☒ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>16:02</u> Stop time (RC GUI): <u>17:02</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS <u>186</u> k prescale <u>186</u> k pretrig: $e-\pi n$ evts: <u>679</u>	SHMS <u>256</u> k prescale <u>256</u> k pretrig: $\Sigma e-\pi n$ evts: <u>9694</u>	COIN pretrig: <u>46</u> k ☒ Data ok ☐ Junk
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186k 256k 46k

Run Number: 14096	☒ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>17:03</u> Stop time (RC GUI): <u>18:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS <u>219</u> k prescale <u>219</u> k pretrig: $e-\pi n$ evts: <u>794</u>	SHMS <u>304</u> k prescale <u>304</u> k pretrig: $\Sigma e-\pi n$ evts: <u>10488</u>	COIN pretrig: <u>47</u> k ☒ Data ok ☐ Junk
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Run Number: 14097	☒ 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>4</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>18:03</u> Stop time (RC GUI): <u>19:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS <u>188</u> k prescale <u>188</u> k pretrig: $e-\pi n$ evts: <u>681</u>	SHMS <u>260</u> k prescale <u>260</u> k pretrig: $\Sigma e-\pi n$ evts: <u>12169</u>	COIN pretrig: <u>46</u> k ☒ Data ok ☐ Junk
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11169

p(e,e'π)n Run Sheet

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

Date: 12 / 20 / 21

Initials: HDB

yy mm dd
2021 Dec 20

Continuation of Configuration:

$$Q^2 = 6 \text{ GeV}^2, W = 2.3 \text{ GeV}$$

low E, 5 HMS Left

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

Run Number: 14098	☒ 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): 19:04 Stop time (RC GUI): 20:08	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 206 k pretrig: e-πn evts: 703	SHMS prescale 284 k pretrig: Σ e-πn evts: 11872	COIN pretrig: 50 k ☒ Data ok ☐ Junk
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Run Number: 14099	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 7 Mode10: cer / fadc	Start time (RC GUI): 20:10 Stop time (RC GUI): 21:10	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 220 k pretrig: e-πn evts: 820	SHMS prescale 305 k pretrig: Σ e-πn evts: 12692	☒ Data ok ☐ Junk
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Run Number: 14100	☒ 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): 21:10 Stop time (RC GUI): 22:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: e-πn evts: 800	SHMS prescale pretrig: Σ e-πn evts: 13492	☒ Data ok ☐ Junk
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13492.

Run Number: 14101	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 7 Mode10: cer / fadc	Start time (RC GUI): 22:15 Stop time (RC GUI): 23:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 201 k pretrig: e-πn evts: 739	SHMS prescale 278 k pretrig: Σ e-πn evts:	☒ Data ok ☐ Junk
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14231

Run Number: 14102	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 7 Mode10: cer / fadc	Start time (RC GUI): 23:18 Stop time (RC GUI): 00:18:42	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 185 k pretrig: e-πn evts: 699	SHMS prescale 255 k pretrig: Σ e-πn evts: 14930	☒ Data ok ☐ Junk
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Run Number: 14103	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 4 PS5: 0 PS6: 7 Mode10: cer / fadc	Start time (RC GUI): 00:19:20 Stop time (RC GUI): 01:20:56	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 212 k pretrig: e-πn evts: 828	SHMS prescale 284 k pretrig: Σ e-πn evts: 15758	☒ 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: 21/12/21
yy mm dd

Initials: *gm*

Continuation of Configuration:

$Q^2 \approx 6 \text{ GeV}^2$, $W \approx 2.3 \text{ GeV}$

low- t , SHMS LEFT

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

Run Number: <i>14104</i>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <i>10</i> PS2: <i>-1</i> PS3: <i>-1</i> PS4: <i>4</i> PS5: <i>0</i> PS6: <i>-1</i> Mode10: <i>cey</i> / fadc	Start time (RC GUI): <i>01:21:16</i> Stop time (RC GUI): <i>02:20:16</i>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <i>200</i> k $e-\pi n$ evts: <i>744</i>	SHMS prescale pretrig: <i>276</i> k $\Sigma e-\pi n$ evts: <i>16502</i>	COIN pretrig: <i>46</i> k ☒ Data ok ☐ Junk
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Run Number: <i>14105</i>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <i>10</i> PS2: <i>-1</i> PS3: <i>-1</i> PS4: <i>4</i> PS5: <i>0</i> PS6: <i>-1</i> Mode10: <i>cey</i> / fadc	Start time (RC GUI): <i>02:20:56</i> Stop time (RC GUI): <i>03:23:41</i>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <i>197</i> k $e-\pi n$ evts: <i>687</i>	SHMS prescale pretrig: <i>272</i> k $\Sigma e-\pi n$ evts: <i>17189</i>	COIN pretrig: <i>48</i> k ☒ Data ok ☐ Junk
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Run Number: <i>14106</i>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <i>10</i> PS2: <i>-1</i> PS3: <i>-1</i> PS4: <i>4</i> PS5: <i>0</i> PS6: <i>-1</i> Mode10: <i>cey</i> / fadc	Start time (RC GUI): <i>03:24:18</i> Stop time (RC GUI): <i>04:27:29</i>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <i>215</i> k $e-\pi n$ evts: <i>771</i>	SHMS prescale pretrig: <i>298</i> k $\Sigma e-\pi n$ evts: <i>17960</i>	COIN pretrig: <i>50</i> k ☒ Data ok ☐ Junk
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Run Number: <i>14107</i>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <i>10</i> PS2: <i>-1</i> PS3: <i>-1</i> PS4: <i>4</i> PS5: <i>0</i> PS6: <i>-1</i> Mode10: <i>cey</i> / fadc	Start time (RC GUI): <i>04:28:26</i> Stop time (RC GUI): <i>05:28:06</i>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <i>189</i> k $e-\pi n$ evts: <i>714</i>	SHMS prescale pretrig: <i>281</i> k $\Sigma e-\pi n$ evts: <i>18674</i>	COIN pretrig: <i>46</i> k ☒ Data ok ☐ Junk
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Run Number: <i>14108</i>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <i>16</i> PS2: <i>-1</i> PS3: <i>-1</i> PS4: <i>4</i> PS5: <i>0</i> PS6: <i>-1</i> Mode10: <i>cey</i> / fadc	Start time (RC GUI): <i>05:28:45</i> Stop time (RC GUI): <i>06:28:24</i>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <i>190</i> k $e-\pi n$ evts: <i>668</i>	SHMS prescale pretrig: <i>263</i> k $\Sigma e-\pi n$ evts: <i>19342</i>	COIN pretrig: <i>46</i> k ☒ Data ok ☐ Junk
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Run Number: <i>14109</i>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <i>10</i> PS2: <i>-1</i> PS3: <i>-1</i> PS4: <i>4</i> PS5: <i>0</i> PS6: <i>-1</i> Mode10: <i>cey</i> / fadc	Start time (RC GUI): <i>06:28:57</i> Stop time (RC GUI): <i>07:22:36</i>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <i>143</i> k $e-\pi n$ evts: <i>517</i>	SHMS prescale pretrig: <i>197</i> k $\Sigma e-\pi n$ evts: <i>19859</i>	COIN pretrig: <i>40</i> k ☒ Data ok ☐ Junk
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