

p(e,e'π)n Run Sheet

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

Date: 22 8 29
yy mm dd

Initials: SFDK

Use a separate sheet for each configuration.

Configuration Name:
 $Q^2 = 1.60, W = 3.08, x = 0.1568, \text{Low } E, \text{SHMS } \text{left } 2$

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

$E_{\text{beam}} = 6.395 \text{ GeV}$ $I_{\text{beam}} = 8 \mu\text{A}$

Raster: On Off
Size: 2x2

HMS
 $p = +0.960$ $\theta(\text{TV}) = 21.555$
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
-13	mm	-26
Nomin:	-0.01	Nomin: -0.3
3H07C	X	Y
-31	mm	-44
Nomin:	0.08	Nomin: -0.49

SHMS
 $p = +0.5422$ $\theta(\text{TV}) = 25.05$
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

	HMS	SHMS	
Q1	I-SET (from PSU) 124.969 A B-HALL 0.16418 T	I-SET (from PSU) 1815.29 A B-HALL 11.442 KG	HB
Q2	I-SET (from PSU) 99.2448 A B-HALL -0.16260 T	I-SET (from PSU) 1138.46 A B-HALL 8.004 KG	Q1
Q3	I-SET (from PSU) 481614 A B-HALL 0.09278 T	I-SET (from PSU) 1912.24 A B-HALL 17.916 KG	Q2
D	I-READ 291.96 A B-NMR 0.2628070 T	I-SET (from PSU) 1250.24 A B-HALL 12.119 KG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	I-SET (from PSU) 1729.95 A B-NMR -12506 KG	D

Run Number: <u>16026</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>22:47</u> Stop time (RC GUI): <u>23:32</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>172</u> k $e-\pi\pi$ evts: <u>99</u>	SHMS prescale pretrig: <u>225</u> k $\Sigma e-\pi\pi$ evts: <u>99</u>	COIN pretrig: <u>609</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8MA SHMS DC - *Double NMR still dropping, but should bring Q=19.523*
 Noisy wire → monitor! *with alarm handler limits* $\Sigma Q = 19.52$

Run Number: <u>16627</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>23:32</u> Stop time (RC GUI): <u>00:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>234</u> k $e-\pi\pi$ evts: <u>144</u>	SHMS prescale pretrig: <u>290</u> k $\Sigma e-\pi\pi$ evts: <u>214</u>	COIN pretrig: <u>787</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8MA SHMS DC Noisy wire gone, back to normal $Q = 25.203$
 $\Sigma Q = 44.726$

Run Number: <u>16628</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>00:31</u> Stop time (RC GUI): <u>00:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi\pi$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi\pi$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8MA FADC run

Run Number: <u>16629</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>1</u> PS5: <u>0</u> PS6: <u>-1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>00:36</u> Stop time (RC GUI): <u>00:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi\pi$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi\pi$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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Junk, prescale bad

p(e,e' π)n Run Sheet

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Date: 22 / 8 / 30
yy mm dd

Initials: ELT

Continuation of Configuration:

$$Q^2 = 1.60, W = 3.98, x = 0.188$$

low α , SHMS left 2

~~16633~~ Junk

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

Run Number: 16630	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 00:39 Stop time (RC GUI): 00:48	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 2610 k $e-\pi n$ evts: 10	SHMS prescale pretrig: 50 k $\Sigma e-\pi n$ evts: 224	COIN pretrig: 135 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 8 mA 3/4 run Dag coin ~ 4000 Hz LT ~ 90% $Q = 4.313$ $\Sigma Q = 49.039$							

Run Number: 16631	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 00:50 Stop time (RC GUI): 00:55	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 482 k $e-\pi n$ evts: 1	SHMS prescale pretrig: 9 k $\Sigma e-\pi n$ evts: 225	COIN pretrig: 15 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk ??
Comments: 5 mA Very short run 3/4 run Dag coin ~ 1.2 kHz LT ~ 100% $Q = 0?$ $\Sigma Q = 49.0$							

Run Number: 16632	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 00:56 Stop time (RC GUI): 01:19	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 3226 k $e-\pi n$ evts: 25	SHMS prescale pretrig: 62 k $\Sigma e-\pi n$ evts: 250	COIN pretrig: 117 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 5 mA Spotty beam 3/4 run Dag coin ~ 1.7K LT ~ 100% $Q = 4.950$ $\Sigma Q = 53.981$							

Run Number: 16634	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 01:22 Stop time (RC GUI): 01:34	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 2941 k $e-\pi n$ evts: 21	SHMS prescale pretrig: 57 k $\Sigma e-\pi n$ evts: 271	COIN pretrig: 104 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 5 mA 3/4 run Dag coin ~ 1.8K LT ~ 100% $Q = 4.686$ $\Sigma Q = 58.675$							

Run Number: 16635	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 01:40 Stop time (RC GUI): 02:00	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 3042 k $e-\pi n$ evts: 31	SHMS prescale pretrig: 60 k $\Sigma e-\pi n$ evts: 302	COIN pretrig: 111 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 5 mA 3/4 run Dag coin ~ 1.8K LT ~ 100% $Q = 4.537$ $\Sigma Q = 63.212$							

Run Number: 16636	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: 10 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI): 	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: 	COIN pretrig: k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments: Cock crash Junk							

p(e,e' π)n Run Sheet

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Date: 22 / 8 / 30
yy mm dd

Initials: RLT

Continuation of Configuration:

$Q_2 = 1.60$, $W = 3.08$, $x = 0.1568$

Down Σ SHMS Left 2

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

Run Number: <u>16637</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>02:11</u> Stop time (RC GUI): <u>02:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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8 mA MCC doing current lock tests. Short run. $Q =$
 $\Sigma Q =$

Run Number: <u>16638</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>02:15</u> Stop time (RC GUI): <u>03:13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>232</u> k $e-\pi n$ evts: <u>123</u>	SHMS prescale pretrig: <u>288</u> k $\Sigma e-\pi n$ evts: <u>424</u>	COIN pretrig: <u>781</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 mA $Q = 25.047$
 $\Sigma Q = 88.259$

Run Number: <u>16639</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>03:13</u> Stop time (RC GUI): <u>04:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>245</u> k $e-\pi n$ evts: <u>139</u>	SHMS prescale pretrig: <u>360</u> k $\Sigma e-\pi n$ evts: <u>563</u>	COIN pretrig: <u>822</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 mA $Q = 26.142$
 $\Sigma Q = 114.401$

Run Number: <u>16640</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>04:12</u> Stop time (RC GUI): <u>05:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>191</u> k $e-\pi n$ evts: <u>103</u>	SHMS prescale pretrig: <u>236</u> k $\Sigma e-\pi n$ evts: <u>666</u>	COIN pretrig: <u>642</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 mA End of early. MCC tuning beam. $Q = 20.394$
 $\Sigma Q = 134.795$

Run Number: <u>16641</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>05:11</u> Stop time (RC GUI): <u>06:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>245</u> k $e-\pi n$ evts: <u>145</u>	SHMS prescale pretrig: <u>302</u> k $\Sigma e-\pi n$ evts: <u>811</u>	COIN pretrig: <u>821</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 mA $Q = 26.140$
 $\Sigma Q = 160.935$

Run Number: <u>16642</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>06:13</u> Stop time (RC GUI): <u>07:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>229</u> k $e-\pi n$ evts: <u>133</u>	SHMS prescale pretrig: <u>283</u> k $\Sigma e-\pi n$ evts: <u>944</u>	COIN pretrig: <u>773</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 mA $Q = 24.590$
 $\Sigma Q = 185.575$

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

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Date: 22/8/76
yy mm dd

Initials: RLT

Continuation of Configuration:

$$Q^2 = 1.60, W = 3.08, x = 0.1568$$

low z , SHMS left 2

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

Run Number: <u>16643</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>4</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>0</u> Mode10: <u>ep/fadc</u>	Start time (RC GUI): <u>07:15</u> Stop time (RC GUI): <u>08:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>220</u> k $e-\pi n$ evts: <u>114</u>	SHMS prescale pretrig: <u>272</u> k $\Sigma e-\pi n$ evts: <u>1058</u>	COIN pretrig: <u>742</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 μ A

$$Q = 23.612$$

$$\Sigma Q = 209.187$$

Run Number: <u>16644</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>ep/fadc</u>	Start time (RC GUI): <u>08:15</u> Stop time (RC GUI): <u>09:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>240</u> k $e-\pi n$ evts: <u>110</u>	SHMS prescale pretrig: <u>296</u> k $\Sigma e-\pi n$ evts: 1168	COIN pretrig: <u>805</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 μ A

$$Q = 25.722$$

$$\Sigma Q = 234.909$$

Run Number: <u>16645</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>ep/fadc</u>	Start time (RC GUI): <u>09:15</u> Stop time (RC GUI): <u>10:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>231</u> k $e-\pi n$ evts: <u>115</u>	SHMS prescale pretrig: <u>284</u> k $\Sigma e-\pi n$ evts: <u>1283</u>	COIN pretrig: <u>781</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 μ A

$$Q = 24.764$$

$$\Sigma Q = 259.673$$

Run Number: <u>16646</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>ep/fadc</u>	Start time (RC GUI): <u>10:15</u> Stop time (RC GUI): <u>11:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>207</u> k $e-\pi n$ evts: <u>101</u>	SHMS prescale pretrig: <u>253</u> k $\Sigma e-\pi n$ evts: <u>1384</u>	COIN pretrig: <u>699</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 μ A

$$Q = 22.162$$

$$\Sigma Q = 281.835$$

Run Number: <u>16647</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>ep/fadc</u>	Start time (RC GUI): <u>11:15</u> Stop time (RC GUI): <u>12:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>228</u> k $e-\pi n$ evts: <u>141</u>	SHMS prescale pretrig: <u>280</u> k $\Sigma e-\pi n$ evts: <u>1525</u>	COIN pretrig: <u>767</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 μ A

$$Q = 24.512$$

$$\Sigma Q = 306.347$$

Run Number: <u>16648</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>ep/fadc</u>	Start time (RC GUI): <u>12:15</u> Stop time (RC GUI): <u>13:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>237</u> k $e-\pi n$ evts: <u>131</u>	SHMS prescale pretrig: <u>291</u> k $\Sigma e-\pi n$ evts: <u>1656</u>	COIN pretrig: <u>793</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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8 μ A

$$Q = 25.419$$

$$\Sigma Q = 331.766$$

p(e,e' π)n Run Sheet

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

Date: 22/08/20
yy mm dd

Initials: NL

Continuation of Configuration:

$Q^2 = 1.60$ $W = 3.08$ $x = 7.68$ $x = 0.1568$
Low E SHMS Left 2 (7.50)

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

Run Number: 16649	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>13:15</u> Stop time (RC GUI): <u>14:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>244</u> k $e-\pi n$ evts: <u>122</u>	SHMS prescale pretrig: <u>299</u> k $\Sigma e-\pi n$ evts: <u>1778</u>	COIN pretrig: <u>813</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 8pA $Q = 26.035$ $\Sigma Q = 357.201$							

Run Number: 16650	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>14:15</u> Stop time (RC GUI): <u>15:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>228</u> k $e-\pi n$ evts: <u>137</u>	SHMS prescale pretrig: <u>282</u> k $\Sigma e-\pi n$ evts: <u>1915</u>	COIN pretrig: <u>764</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 8pA $Q = 24.6mC$ $\Sigma Q = 382.4$							

Run Number: 16651	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>15:15</u> Stop time (RC GUI): <u>16:15</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>226</u> k $e-\pi n$ evts: <u>120</u>	SHMS prescale pretrig: <u>277</u> k $\Sigma e-\pi n$ evts: <u>2035</u>	COIN pretrig: <u>758</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 8pA $Q = 24.2mC$ $\Sigma Q = 406.6mC$							

Run Number: 16652	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>16:28</u> Stop time (RC GUI): <u>16:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>121</u> k $e-\pi n$ evts: <u>16</u>	SHMS prescale pretrig: <u>130</u> k $\Sigma e-\pi n$ evts: _____	COIN pretrig: <u>201</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: DAQ crash at end of run $Q = 59.1mC$ $\Sigma Q = 59.1mC$							

Run Number: 16653	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>16:59</u> Stop time (RC GUI): <u>17:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments: JUNK No event saving? JUNK							

Run Number: 16654	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>17:03</u> Stop time (RC GUI): <u>17:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>102</u> k $e-\pi n$ evts: <u>14</u>	SHMS prescale pretrig: <u>104</u> k $\Sigma e-\pi n$ evts: <u>30</u>	COIN pretrig: <u>170</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: HMS \rightarrow 102k $Q = 49.7mC$ $\Sigma Q = 108.8mC$							

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

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

Date: 22/8/30
yy mm dd

Initials: SFOK

Continuation of Configuration:

$Q^2 = 1.60$, $W = 3.08$, $\text{Low } E_{\pi}$, $x = 0.1568$
SHMS ~~644~~-2 (7.50°)

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

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Run Number: 16655	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: <input checked="" type="checkbox"/> cer / fadc	Start time (RC GUI): 17:38 Stop time (RC GUI): 18:38	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 239 k $e-\pi n$ evts: 141	SHMS prescale pretrig: 294 k $\Sigma e-\pi n$ evts: 2176	COIN pretrig: 797 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 25.6$ mC
 $\Sigma Q = 432.2$ mC

Run Number: 16656	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: <input checked="" type="checkbox"/> cer / fadc	Start time (RC GUI): 18:39 Stop time (RC GUI): 19:39	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 227 k $e-\pi n$ evts: 130	SHMS prescale pretrig: 274 k $\Sigma e-\pi n$ evts: 2306	COIN pretrig: 761 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 24.3$ mC
 $\Sigma Q = 456.6$ mC

Run Number: 16657	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: <input checked="" type="checkbox"/> cer / fadc	Start time (RC GUI): 19:39 Stop time (RC GUI): 20:39	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 239 k $e-\pi n$ evts: 119	SHMS prescale pretrig: 292 k $\Sigma e-\pi n$ evts: 2425	COIN pretrig: 805 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 25.5$ mC
 $\Sigma Q = 482.1$ mC

Run Number: 16658	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: <input checked="" type="checkbox"/> cer / fadc	Start time (RC GUI): 20:40 Stop time (RC GUI): 21:40	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 244 k $e-\pi n$ evts: 133	SHMS prescale pretrig: 298 k $\Sigma e-\pi n$ evts: 2558	COIN pretrig: 821 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 26.1$ mC
 $\Sigma Q = 508.2$ mC

Run Number: 16659	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: <input checked="" type="checkbox"/> cer / fadc	Start time (RC GUI): 21:40 Stop time (RC GUI): 22:40	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 243 k $e-\pi n$ evts: 114	SHMS prescale pretrig: 298 k $\Sigma e-\pi n$ evts: 2672	COIN pretrig: 821 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 26.0$ mC
 $\Sigma Q = 534.2$ mC

Run Number: 16660	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: 14 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: <input checked="" type="checkbox"/> cer / fadc	Start time (RC GUI): 22:41 Stop time (RC GUI): 23:43	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 260 k $e-\pi n$ evts: 133	SHMS prescale pretrig: 320 k $\Sigma e-\pi n$ evts: 2819	COIN pretrig: 875 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 27.9$ mC
 $\Sigma Q = 566.0$ mC

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

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

Date: 22 / 8 / 30
yy mm dd

Initials: SFWK

Continuation of Configuration:

$Q^2 = 1.609$ $W = 3.089$ $z = 0.1568$
Low E_g SHMS $\theta_{\pi} = 2 (7.50^\circ)$

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

Run Number: <u>16661</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>23:44</u> Stop time (RC GUI): <u>00:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>36</u> k $e-\pi n$ evts: <u>14</u>	SHMS prescale pretrig: <u>44</u> k $\Sigma e-\pi n$ evts: <u>268 2833</u>	COIN pretrig: <u>129</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: Beam down for while $Q = 3.856$ $\Sigma Q = 569.86$
 ~~$\Sigma Q = 572.277$~~

Run Number: <u>16662</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>00:05</u> Stop time (RC GUI): <u>01:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>228</u> k $e-\pi n$ evts: <u>116</u>	SHMS prescale pretrig: <u>278</u> k $\Sigma e-\pi n$ evts: <u>2935</u>	COIN pretrig: <u>771</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: $Q = 24.273$ $\Sigma Q = 590.277$

Run Number: <u>16663</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>04:07</u> Stop time (RC GUI): <u>02:09</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>252</u> k $e-\pi n$ evts: <u>114</u>	SHMS prescale pretrig: <u>308</u> k $\Sigma e-\pi n$ evts: <u>3049</u>	COIN pretrig: <u>852</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: $Q = 26.899$ $\Sigma Q = 617.176$

Run Number: <u>16664</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>6</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>02:10</u> Stop time (RC GUI): <u>03:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>230</u> k $e-\pi n$ evts: <u>104</u>	SHMS prescale pretrig: <u>202</u> k $\Sigma e-\pi n$ evts: <u>3150</u>	COIN pretrig: <u>779</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: $Q = 24.684$ $\Sigma Q = 641.860$

Run Number: <u>16665</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>03:10</u> Stop time (RC GUI): <u>04:07</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>227</u> k $e-\pi n$ evts: <u>144</u>	SHMS prescale pretrig: <u>278</u> k $\Sigma e-\pi n$ evts: <u>3294</u>	COIN pretrig: <u>763</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: $Q = 24.203$ $\Sigma Q = 666.063$

Run Number: <u>16666</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>04:08</u> Stop time (RC GUI): <u>05:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>240</u> k $e-\pi n$ evts: <u>153</u>	SHMS prescale pretrig: <u>356</u> k $\Sigma e-\pi n$ evts: <u>3447</u>	COIN pretrig: <u>978</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: $Q = 31.043$ $\Sigma Q = 697.156$

p(e,e' π)n Run Sheet

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

Date: 22/8/31
yy mm dd

Initials: RLC

Continuation of Configuration:

$$Q^2 = 1.60, W = 3.08, K = 0.1568$$

low ϵ , SHMS left 2

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

Run Number: <u>16667</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>05:20</u> Stop time (RC GUI): <u>06:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>244</u> k $e-\pi n$ evts: <u>136</u>	SHMS prescale pretrig: <u>298</u> k $\Sigma e-\pi n$ evts: <u>3583</u>	COIN pretrig: <u>823</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$$Q = 26.031$$

$$\Sigma Q = 732.187$$

Run Number: <u>16668</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>06:20</u> Stop time (RC GUI): <u>07:27</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>259</u> k $e-\pi n$ evts: <u>138</u>	SHMS prescale pretrig: <u>315</u> k $\Sigma e-\pi n$ evts: <u>3721</u>	COIN pretrig: <u>879</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$$Q = 27.448$$

$$\Sigma Q = 750.635$$

Run Number: <u>16669</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-4</u> PS4: <u>7</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>07:28</u> Stop time (RC GUI): <u>08:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>134</u> k $e-\pi n$ evts: <u>65</u>	SHMS prescale pretrig: <u>165</u> k $\Sigma e-\pi n$ evts: <u>3786</u>	COIN pretrig: <u>451</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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MCC took away beam for RF recovery

$$Q = 14.380$$

$$\Sigma Q = 765.015$$

Run Number: <u>16672</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): Stop time (RC GUI): 	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: 	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: 	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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WRONG PRESCALES,

Run Number: <u>16673</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>18:14</u> Stop time (RC GUI): <u>19:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>264</u> k $e-\pi n$ evts: <u>127</u>	SHMS prescale pretrig: <u>327</u> k $\Sigma e-\pi n$ evts: <u>3913</u>	COIN pretrig: <u>866</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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~ 2 Mevts.

$$Q = 22.1549 ?$$

$$\Sigma Q = ?$$

Run Number: <u>16674</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:28</u> Stop time (RC GUI): <u>20:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>228</u> k $e-\pi n$ evts: <u>133</u>	SHMS prescale pretrig: <u>283</u> k $\Sigma e-\pi n$ evts: <u>4046</u>	COIN pretrig: <u>747</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$$Q = 24.720$$

$$\Sigma Q = 818.222 \text{ mC}$$

p(e,e' π)n Run Sheet

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

Date: 29 / 8 / 31
 yy mm dd

Initials: PS.

Continuation of Configuration:

$Q^2 = 16$ $W = 3.08$ $x = 0.1568$

low E, shms left 2

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

Run Number: 16675	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): 20:26 Stop time (RC GUI): 21:26	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 244 k e- π n evts: 124	SHMS prescale pretrig: 302 k Σ e- π n evts: 4170	COIN pretrig: 795 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 26.415$ mC
 $\Sigma Q = 844.637$ mC

Run Number: 16676	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): 21:26 Stop time (RC GUI): 22:31	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 255 k e- π n evts: 124	SHMS prescale pretrig: 315 k Σ e- π n evts: 4294	COIN pretrig: 833 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 27.479$ mC
 $\Sigma Q = 872.116$ mC

Run Number: 16677	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): 22:31 Stop time (RC GUI): 23:37	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 264 k e- π n evts: 134	SHMS prescale pretrig: 326 k Σ e- π n evts: 4428	COIN pretrig: 865 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 28.439$ mC
 $\Sigma Q = 900.555$ mC

Run Number: 16678	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): 23:37 Stop time (RC GUI): 0:43	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: 239 k e- π n evts: 114	SHMS prescale pretrig: 295 k Σ e- π n evts: 4542	COIN pretrig: 782 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 25.696$ mC
 $\Sigma Q = 926.251$ mC

Run Number: 16679	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): 0:43 Stop time (RC GUI): 1:43	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 241 k e- π n evts: 120	SHMS prescale pretrig: 296 k Σ e- π n evts: 4662	COIN pretrig: 790 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 25.886$ mC
 $\Sigma Q = 952.137$ mC

Run Number: 16680	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): 1:44 Stop time (RC GUI): 2:45	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 248 k e- π n evts: 140	SHMS prescale pretrig: 304 k Σ e- π n evts: 4802	COIN pretrig: 811 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 26.54$ mC
 $\Sigma Q = 978.677$ mC

p(e,e'π)n Run Sheet

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

Date: 22/09/01
yy mm dd

Initials: NH

Continuation of Configuration:

$Q^2 = 1.6$ $W = 3.08$ $x = 0.1568$
low E , SHMS left 2

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

Run Number: <u>16681</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>1</u> PS3: _____ PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>2:45</u> Stop time (RC GUI): <u>3:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>240</u> k pretrig: _____ $e-\pi n$ evts: <u>120</u>	SHMS prescale <u>295</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>4922</u>	COIN pretrig: <u>785</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 25.692$
 $\Sigma Q = 1009.389$

Run Number: <u>16682</u>	<input type="checkbox"/> LH2 10cm <input checked="" type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___cm <input type="checkbox"/> _____	PS1: <u>14</u> PS2: <u>1</u> PS3: _____ PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:45</u> Stop time (RC GUI): <u>4:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>182</u> k pretrig: _____ $e-\pi n$ evts: <u>110</u>	SHMS prescale <u>222</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>5032</u>	COIN pretrig: <u>595</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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$Q = 19.392$
 $\Sigma Q = 1023.761$

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