

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

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

Date: 22 / 01 / 20
yy mm dd

Initials: MM

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____

$Q^2=5.00$ $W=2.95$ $x=0.39$
low ϵ Center

E_{beam} : 7.914 GeV

I_{beam} : 110 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-1.226</u> mm		<u>-0.509</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-1.19</u> mm		<u>-0.49</u> mm
Nomin:		Nomin:

Q1	I-SET (from PSU) <u>143.80</u> A B-HALL <u>0.18916</u> T	I-SET (from PSU) <u>-14.4125</u> A B-HALL <u>2210.30</u> kG	HB
Q2	I-SET (from PSU) <u>144.18</u> A B-HALL <u>-0.18920</u> T	I-SET (from PSU) <u>1415.20</u> A B-HALL <u>10.069</u> kG	Q1
Q3	I-SET (from PSU) <u>55.39</u> A B-HALL <u>-15.040</u> T	I-SET (from PSU) <u>2369.24</u> A B-HALL <u>-22.305</u> kG	Q2
D	I-READ <u>2143.32</u> A B-NMR <u>15525</u> T	I-SET (from PSU) <u>1558.84</u> A B-HALL <u>-15.040</u> kG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>2143.32</u> A B-NMR <u>15.531</u> kG	D

Run Number:

14387

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

PS1: 14
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

13:57

Stop time (RC GUI):

13:59

☐ Settings Verified?

☒ HV OK?

☐ 50k OK?

HMS prescale
pretrig: _____ k

$e-\pi n$ evts:

SHMS prescale
pretrig: _____ k

$\Sigma e-\pi n$ evts:

COIN pretrig: _____ k

☐ Data ok

☐ Junk

Comments:

FADC mode 10 run

Run Number:

14388

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

PS1: 14
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

14:00

Stop time (RC GUI):

15:00

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 177 k

$e-\pi n$ evts:

187

SHMS prescale
pretrig: 234 k

$\Sigma e-\pi n$ evts:

187

COIN pretrig: 273 k

☒ Data ok

☐ Junk

Comments:

Run Number:

14389

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

PS1: 14
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

15:01

Stop time (RC GUI):

16:01

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 167 k

$e-\pi n$ evts:

209

SHMS prescale
pretrig: 220 k

$\Sigma e-\pi n$ evts:

396

COIN pretrig: 256 k

☒ Data ok

☐ Junk

Comments:

Run Number:

14390

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

PS1: 14
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

16:02

Stop time (RC GUI):

16:57

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 157 k

$e-\pi n$ evts:

182

SHMS prescale
pretrig: 206 k

$\Sigma e-\pi n$ evts:

578

COIN pretrig: 238 k

☒ Data ok

☐ Junk

Comments:

stopped because of
SHMS Q1 Interlock

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

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

Date: 29/01/20
yy mm dd

Initials: S.J.

Continuation of Configuration:

$Q = 5.00$ $W = 2.95$ $x = 0.39$

Low q Center

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

Run Number: <u>14391</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>40</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>17:50</u> Stop time (RC GUI): <u>18:50</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>175</u> k $e-\pi n$ evts: <u>215</u>	SHMS prescale pretrig: <u>231</u> k $\Sigma e-\pi n$ evts: <u>793</u>	COIN pretrig: <u>265</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14392</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>18:50</u> Stop time (RC GUI): <u>19:50</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>183</u> k $e-\pi n$ evts: <u>232</u>	SHMS prescale pretrig: <u>241</u> k $\Sigma e-\pi n$ evts: <u>1025</u>	COIN pretrig: <u>274</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14393</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>19:50</u> Stop time (RC GUI): <u>20:49</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>136</u> k $e-\pi n$ evts: <u>163</u>	SHMS prescale pretrig: <u>177</u> k $\Sigma e-\pi n$ evts: <u>1188</u>	COIN pretrig: <u>208</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14394</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>20:50</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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No beam at all

Run Number: <u>14395</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>4</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>21:24</u> Stop time (RC GUI): <u>22:24</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>170</u> k $e-\pi n$ evts: <u>2045</u>	SHMS prescale pretrig: <u>223</u> k $\Sigma e-\pi n$ evts: <u>1393</u>	COIN pretrig: <u>255</u> k ☐ Data ok ☐ Junk
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Run Number: <u>14396</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:24</u> Stop time (RC GUI): <u>23:26</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>167</u> k $e-\pi n$ evts: <u>204</u>	SHMS prescale pretrig: <u>219</u> k $\Sigma e-\pi n$ evts: <u>1597</u>	COIN pretrig: <u>253</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: 22 / 01 / 20
yy mm dd

Initials: SJ

Continuation of Configuration:

$Q^2 = 5.00$ $W = 2.95$ $X = 0.39$
Geant Center

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

Run Number: 14397	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 23:27 Stop time (RC GUI): 00:35:50	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 203 k $e-\pi n$ evts: 238	SHMS prescale pretrig: 266 k $\Sigma e-\pi n$ evts: 1835	COIN pretrig: 304 k ☒ Data ok ☐ Junk
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Run Number: 14398	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:36:17 Stop time (RC GUI): 01:42:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 190 k $e-\pi n$ evts: 232	SHMS prescale pretrig: 247 k $\Sigma e-\pi n$ evts: 2067	COIN pretrig: 282 k ☒ Data ok ☐ Junk
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VACUUM INTERLOCK AT SHMS

Run Number: 14399	☐ 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: 14414 & 15	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:25 Stop time (RC GUI): 10:27	☒ 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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checking BPM values
with C12 hole at 10 μA

Run Number: 14416	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:48 Stop time (RC GUI): 10:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 159 k $e-\pi n$ evts: 227	SHMS prescale pretrig: 212 k $\Sigma e-\pi n$ evts: 2294	COIN pretrig: 241 k ☒ Data ok ☐ Junk
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Back to production $Q^2 = 5$, $W = 2.95$, $X = 0.39$ low E ^{measured} $E = 7913$ MeV

Run Number: 14417	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:47 Stop time (RC GUI): _____	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 168 k $e-\pi n$ evts: 201	SHMS prescale pretrig: 226 k $\Sigma e-\pi n$ evts: 2495	COIN pretrig: 255 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: 2022 1 / 21
yy mm dd

Initials: RmJg

Continuation of Configuration:

$Q^2 = 5$, $W = 2.95$, $x = 0.39$

low E Center

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

Run Number: 14418	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:47 Stop time (RC GUI): 13:57	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 185 k $e-\pi n$ evts: 206	SHMS prescale pretrig: 249 k $\Sigma e-\pi n$ evts: 2701	COIN pretrig: 283 k ☒ Data ok ☐ Junk
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Run Number: 14419	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:57 Stop time (RC GUI): 14:53	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 168 k $e-\pi n$ evts: 194	SHMS prescale pretrig: 226 k $\Sigma e-\pi n$ evts: 2895	☒ Data ok ☐ Junk
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Run Number: 14420	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:54 Stop time (RC GUI): 15:56	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 138 k $e-\pi n$ evts: 159	SHMS prescale pretrig: 185 k $\Sigma e-\pi n$ evts: 3054	☒ Data ok ☐ Junk
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Run Number: 14421	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:50 Stop time (RC GUI): 16:51	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 169 k $e-\pi n$ evts: 217	SHMS prescale pretrig: 227 k $\Sigma e-\pi n$ evts: 3271	☒ Data ok ☐ Junk
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Run Number: 14422	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:52:29 Stop time (RC GUI): 17:52:09	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 168 k $e-\pi n$ evts: 216	SHMS prescale pretrig: 226 k $\Sigma e-\pi n$ evts: 3487	☒ Data ok ☐ Junk
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Run Number: 14423	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:52:43 Stop time (RC GUI): 18:52:38	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 171 k $e-\pi n$ evts: 924	SHMS prescale pretrig: 230 k $\Sigma e-\pi n$ evts: 3711	☒ 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: 2023 01 / 21
yy mm dd

Initials: SCS

Continuation of Configuration:

$Q^2=5$, $W=2.95$, $x=0.39$

low ϵ Center

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

Run Number: 14424	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:54:18 Stop time (RC GUI): 19:53:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 168 k $e-\pi n$ evts: 199	SHMS prescale pretrig: 225 k $\Sigma e-\pi n$ evts: 3910	COIN pretrig: 252 k ☒ Data ok ☐ Junk
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Run Number: 14425	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:54:11 Stop time (RC GUI): 20:54:21	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 160 k $e-\pi n$ evts: 210	SHMS prescale pretrig: 214 k $\Sigma e-\pi n$ evts: 4120	COIN pretrig: 240 k ☒ Data ok ☐ Junk
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Run Number: 14426	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:54:48 Stop time (RC GUI): 21:54:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 171 k $e-\pi n$ evts: 204	SHMS prescale pretrig: 229 k $\Sigma e-\pi n$ evts: 4324	COIN pretrig: 254 k ☒ Data ok ☐ Junk
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Run Number: 14427	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:54:59 Stop time (RC GUI): 22:54:50	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 160 k $e-\pi n$ evts: 202	SHMS prescale pretrig: 214 k $\Sigma e-\pi n$ evts: 4526	COIN pretrig: 239 k ☒ Data ok ☐ Junk
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Run Number: 14428	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:55:18 Stop time (RC GUI): 23:22:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 47 k $e-\pi n$ evts: 47	SHMS prescale pretrig: 63 k $\Sigma e-\pi n$ evts: 4573	COIN pretrig: 77 k ☒ Data ok ☐ Junk
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SHORT RUN 185k events 1 LD4 quenched

Run Number: 14429	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:09 Stop time (RC GUI): 03:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 169 k $e-\pi n$ evts: 225	SHMS prescale pretrig: 226 k $\Sigma e-\pi n$ evts: 4798	COIN pretrig: 350 k ☒ Data ok ☐ Junk
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LODA crashed at end

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

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

Date: 22 / 1 / 22
yy mm dd

Initials: RLT

Continuation of Configuration:

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

$Q^2=5$, $W=2.95$, $x=0.39$
low E SHMS Center

Run Number: <u>14430</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>03:13</u> Stop time (RC GUI): <u>03:32</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>43</u> k $e-\pi n$ evts: <u>50</u>	SHMS prescale pretrig: <u>58</u> k $\Sigma e-\pi n$ evts: <u>4848</u>	COIN pretrig: <u>66</u> k ☒ Data ok ☐ Junk
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Beam gone by MCL

Run Number: <u>14431</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>03:54</u> Stop time (RC GUI): <u>05:01</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>189</u> k $e-\pi n$ evts: <u>140</u>	SHMS prescale pretrig: <u>129</u> k $\Sigma e-\pi n$ evts: <u>4988</u>	COIN pretrig: <u>162</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14432</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>05:02</u> Stop time (RC GUI): <u>06:07</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>170</u> k $e-\pi n$ evts: <u>214</u>	SHMS prescale pretrig: <u>228</u> k $\Sigma e-\pi n$ evts: <u>5202</u>	COIN pretrig: <u>208</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14433</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>06:08</u> Stop time (RC GUI): <u>07:10</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>167</u> k $e-\pi n$ evts: <u>206</u>	SHMS prescale pretrig: <u>224</u> k $\Sigma e-\pi n$ evts: <u>5408</u>	COIN pretrig: <u>253</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14434</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>07:11</u> Stop time (RC GUI): <u>08:13</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>119</u> k $e-\pi n$ evts: <u>149</u>	SHMS prescale pretrig: <u>159</u> k $\Sigma e-\pi n$ evts: <u>5557</u>	COIN pretrig: <u>188</u> k ☒ Data ok ☐ Junk
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NO beam just 15 minutes

Run Number: <u>14435</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>6</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>08:16</u> Stop time (RC GUI): <u>09:16</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>4362</u> k $e-\pi n$ evts: <u>165</u>	SHMS prescale pretrig: <u>177</u> k $\Sigma e-\pi n$ evts: <u>5722</u>	COIN pretrig: <u>206</u> k ☒ Data ok ☐ Junk
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3/4 run

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

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

Date: 22 / 01 / 22
yy mm dd

Initials: DA

Continuation of Configuration:

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

$Q^2=5$, $W=2.95$, $x=0.39$
Low E SHMS center

Run Number: 14436	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 09:17 Stop time (RC GUI): 10:17	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 132 k $e-\pi n$ evts: 153	SHMS prescale pretrig: 177 k $\Sigma e-\pi n$ evts: 5875	COIN pretrig: 207 k ☒ Data ok ☐ Junk
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Run Number: 14437	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:18 Stop time (RC GUI): 11:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 166 k $e-\pi n$ evts: 206	SHMS prescale pretrig: 221 k $\Sigma e-\pi n$ evts: 6081	COIN pretrig: 252 k ☒ Data ok ☐ Junk
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Run Number: 14438	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:18 Stop time (RC GUI): 12:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 156 k $e-\pi n$ evts: 159	SHMS prescale pretrig: 207 k $\Sigma e-\pi n$ evts: 6240	COIN pretrig: 239 k ☒ Data ok ☐ Junk
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Run Number: 14439	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:19 Stop time (RC GUI): 13:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 152 k $e-\pi n$ evts: 202	SHMS prescale pretrig: 203 k $\Sigma e-\pi n$ evts: 6442	COIN pretrig: 236 k ☒ Data ok ☐ Junk
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Run Number: 14440	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:19 Stop time (RC GUI): 14:20	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 148 k $e-\pi n$ evts: 176	SHMS prescale pretrig: 196 k $\Sigma e-\pi n$ evts: 6618	COIN pretrig: 229 k ☒ Data ok ☐ Junk
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Run Number: 14441	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:21 Stop time (RC GUI): 15:19	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 154 k $e-\pi n$ evts: 184	SHMS prescale pretrig: 206 k $\Sigma e-\pi n$ evts: 6802	COIN pretrig: 239 k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22/01/22
yy mm dd

Initials: DA
SCD

Continuation of Configuration:

$B^2=5$, $W=2.95$, $\alpha=0.39$

Low E , SHMS Center

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

Run Number: 14442	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:19 Stop time (RC GUI): 16:19:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 173 k $e-\pi n$ evts: 208	SHMS prescale pretrig: 231 k $\Sigma e-\pi n$ evts: 7010	COIN pretrig: 266 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14443	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:20:09 Stop time (RC GUI): 17:20:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 112 k $e-\pi n$ evts: 147	SHMS prescale pretrig: 149 k $\Sigma e-\pi n$ evts: 7157	COIN pretrig: 184 k ☒ Data ok ☐ Junk
Comments: ~ 20 min Beam OFF due to some acc. work							

Run Number: 14444	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:21:04 Stop time (RC GUI): 18:20:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 166 k $e-\pi n$ evts: 194	SHMS prescale pretrig: 221 k $\Sigma e-\pi n$ evts: 7351	COIN pretrig: 254 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14445	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:21:13 Stop time (RC GUI): 19:19:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 153 k $e-\pi n$ evts: 172	SHMS prescale pretrig: 204 k $\Sigma e-\pi n$ evts: 7523	COIN pretrig: 233 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14446	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:21:15 Stop time (RC GUI): 20:21:54	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 180 k $e-\pi n$ evts: 221	SHMS prescale pretrig: 239 k $\Sigma e-\pi n$ evts: 7764	COIN pretrig: 271 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14447	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:22:22 Stop time (RC GUI): 21:22:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 154 k $e-\pi n$ evts: 183	SHMS prescale pretrig: 203 k $\Sigma e-\pi n$ evts: 7947	COIN pretrig: 232 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 22/01/22
yy mm dd

Initials: SCA

Continuation of Configuration:

$Q^2=5$, $W=2.95$, $X=0.39$

low Z , SHMS Center

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

Run Number: 14448	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:22:56 Stop time (RC GUI): 22:19:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 156 k $e-\pi n$ evts: 186	SHMS prescale pretrig: 206 k $\Sigma e-\pi n$ evts: 8133	COIN pretrig: 232 k ☒ Data ok ☐ Junk
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Run Number: 14449	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:19:34 Stop time (RC GUI): 23:20:24	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 157 k $e-\pi n$ evts: 208	SHMS prescale pretrig: 206 k $\Sigma e-\pi n$ evts: 8341	COIN pretrig: 234 k ☒ Data ok ☐ Junk
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Run Number: 14450	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:23:37 Stop time (RC GUI): 00:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 163 k $e-\pi n$ evts: 209	SHMS prescale pretrig: 216 k $\Sigma e-\pi n$ evts: 8550	COIN pretrig: 248 k ☒ Data ok ☐ Junk
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Run Number: 14451	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:28 Stop time (RC GUI): 01:26	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 158 k $e-\pi n$ evts: 207	SHMS prescale pretrig: 211 k $\Sigma e-\pi n$ evts: 8757	COIN pretrig: 241 k ☒ Data ok ☐ Junk
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Run Number: 14452	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:27 Stop time (RC GUI): 02:13	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 87 k $e-\pi n$ evts: 110	SHMS prescale pretrig: 145 k $\Sigma e-\pi n$ evts: 8867	COIN pretrig: 140 k ☒ Data ok ☐ Junk
No beam, last 10 minutes							

Run Number: 14453	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 02:53 Stop time (RC GUI): 03:53	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 166 k $e-\pi n$ evts: 206	SHMS prescale pretrig: 220 k $\Sigma e-\pi n$ evts: 9073	COIN pretrig: 252 k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22 / 1 / 23
yy mm dd

Initials: RLT

Continuation of Configuration:

$\alpha^2 = 5$, $W = 2.95$, $X = 0.39$
low ϵ , SHMS center

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

Run Number: 14454	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 03:54 Stop time (RC GUI): 04:54	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 169 k $e-\pi n$ evts: 180	SHMS prescale pretrig: 215 k $\Sigma e-\pi n$ evts: 9253	COIN pretrig: 246 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14455	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:55 Stop time (RC GUI): 05:57	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 169 k $e-\pi n$ evts: 233	SHMS prescale pretrig: 225 k $\Sigma e-\pi n$ evts: 9486	COIN pretrig: 257 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14456	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 05:58 Stop time (RC GUI): 07:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 164 k $e-\pi n$ evts: 177	SHMS prescale pretrig: 218 k $\Sigma e-\pi n$ evts: 9663	COIN pretrig: 252 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14457 14457	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 07:01 Stop time (RC GUI): 07:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 170 k $e-\pi n$ evts: 203	SHMS prescale pretrig: 227 k $\Sigma e-\pi n$ evts: 9866	COIN pretrig: 257 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14458	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 08:00 Stop time (RC GUI): 08:57	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 151 k $e-\pi n$ evts: 206	SHMS prescale pretrig: 202 k $\Sigma e-\pi n$ evts: 10072	COIN pretrig: 232 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14459	☐ LH2 10cm ☒ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 14 PS2: -1 PS3: -1 PS4: 3 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 9:05:40 Stop time (RC GUI): 10:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 265 k $e-\pi n$ evts: 6	SHMS prescale pretrig: 159 k $\Sigma e-\pi n$ evts: 6	COIN pretrig: 39 k ☒ Data ok ☐ Junk
Comments: Dummy							

p(e,e' π)n Run Sheet

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

Date: 22 / 04 / 23
yy mm dd

Initials: DA

Continuation of Configuration:

$Q^2=5$, $W=2.95$, $X=0.39$

low E, SHMS Center

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

Run Number: <u>14460</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>10:03</u> Stop time (RC GUI): <u>11:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>246</u> k $e-\pi n$ evts: <u>6</u>	SHMS prescale pretrig: <u>147</u> k $\Sigma e-\pi n$ evts: <u>12</u>	COIN pretrig: <u>40</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14461</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>11:03</u> Stop time (RC GUI): <u>12:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>257</u> k $e-\pi n$ evts: <u>9</u>	SHMS prescale pretrig: <u>154</u> k $\Sigma e-\pi n$ evts: <u>21</u>	COIN pretrig: <u>41</u> k ☒ Data ok ☐ Junk
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Run Number: <u>14462</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>12:03</u> Stop time (RC GUI): <u>13:15</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>348</u> k $e-\pi n$ evts: <u>13</u>	SHMS prescale pretrig: <u>209</u> k $\Sigma e-\pi n$ evts: <u>34</u>	COIN pretrig: <u>50</u> k ☒ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI): 	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI): 	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Run Number:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI): 	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22/01/23
yy mm dd

Initials: DA

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____

Purpose:

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

E_{beam}: 7.914 GeV

I_{beam}: 70 μ A

Raster: ☒ On ☐ Off

Size: 2x2 mm²

HMS

p: +/- -1.04

θ (TV): 44.37

From GUI

Nearest 0.005

SHMS

p: +/- 6.719

θ (TV): 8.17

From GUI

Nearest 0.005

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

Beam position and angle on target:

3H07A	X	Y
<u>-0.62</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-1.0</u> mm		<u>-0.45</u> mm
Nomin:		Nomin:

Q1	I-SET (from PSU) <u>143.84</u> A B-HALL	A	I-SET (from PSU) <u>2270.20</u> A B-HALL	A	HB
	<u>0.18854</u> T		<u>-14.412</u> kG		
Q2	I-SET (from PSU) <u>-114.18</u> A B-HALL	A	I-SET (from PSU) <u>-1415.12</u> A B-HALL	A	Q1
	<u>-0.18486</u> T		<u>12.070</u> kG		
Q3	I-SET (from PSU) <u>55.39</u> A B-HALL	A	I-SET (from PSU) <u>2364.00</u> A B-HALL	A	Q2
	<u>0.1090</u> T		<u>-22.305</u> kG		
D	I-READ <u>336.84</u> A B-NMR	A	I-SET (from PSU) <u>-1558.76</u> A B-HALL	A	Q3
	<u>0.78820</u> T		<u>-15.939</u> kG		
	If momentum increased:		I-SET (from PSU)		D
	☒ HMS cycled?		<u>2143.16</u> A B-NMR		
	☒ SHMS cycled?		<u>15.531</u> kG		

Run Number:

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

PS1: 12
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

13:30

Stop time (RC GUI):

14:30

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 145 k

$e-\pi n$ evts:

108163

SHMS prescale
pretrig: 238 k

$\Sigma e-\pi n$ evts:

108

COIN pretrig: 101 k

☒ Data ok

☐ Junk

Comments:

Run Number:

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

PS1: 12
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

14:30

Stop time (RC GUI):

14:32

☒ Settings Verified?

☒ HV OK?

☐ 50k OK?

HMS prescale
pretrig: k

$e-\pi n$ evts:

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN pretrig: k

☐ Data ok

☐ Junk

Comments:

fadc mode 10

Run Number:

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

PS1: 12
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

14:33

Stop time (RC GUI):

15:33

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 152 k

$e-\pi n$ evts:

142206

SHMS prescale
pretrig: 249 k

$\Sigma e-\pi n$ evts:

252369

COIN pretrig: 105 k

☒ Data ok

☐ Junk

Comments:

new replay

Run Number:

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

PS1: 12
PS2: -1
PS3: -1
PS4: 6
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

15:33

Stop time (RC GUI):

16:54

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 33 k

$e-\pi n$ evts:

38

SHMS prescale
pretrig: 54 k

$\Sigma e-\pi n$ evts:

288407

COIN pretrig: 27 k

☒ Data ok

☐ Junk

Comments:

SHORT RUN

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

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

Date: 22 / 01 / 23
yy mm dd

Initials: SCB

Continuation of Configuration:

$Q^2=5$, $W=2.95$, $x=0.59$
low E SHMS LEFT

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

Run Number: 14467	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: 7 PS3: 1 PS4: 6 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 15:59:26 Stop time (RC GUI): 17:00:24	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 191 k $e-\pi n$ evts: 219	SHMS prescale pretrig: 312 k $\Sigma e-\pi n$ evts: 626	COIN pretrig: 121 k ☒ Data ok ☐ Junk
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Run Number: 14468	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: 7 PS3: 1 PS4: 6 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 17:00:58 Stop time (RC GUI): 18:00:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 179	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: 805	COIN pretrig: k ☒ Data ok ☐ Junk
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Run Number: 14469	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: 7 PS3: 1 PS4: 6 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 18:00:57 Stop time (RC GUI): 18:47:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 85 k $e-\pi n$ evts: 95	SHMS prescale pretrig: 140 k $\Sigma e-\pi n$ evts: 900	COIN pretrig: 66 k ☒ Data ok ☐ Junk
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~ 20 min Beam OFF @ end of run, STOPPED run early (Acc has RF issues).

Run Number: 14470	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: 7 PS3: 1 PS4: 6 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 19:06:55 Stop time (RC GUI): 20:07:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 155 k $e-\pi n$ evts: 174	SHMS prescale pretrig: 253 k $\Sigma e-\pi n$ evts: 1074	COIN pretrig: 105 k ☒ Data ok ☐ Junk
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Run Number: 14471	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: 7 PS3: 1 PS4: 6 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 20:08:10 Stop time (RC GUI): 21:05:43	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 185 k $e-\pi n$ evts: 204	SHMS prescale pretrig: 304 k $\Sigma e-\pi n$ evts: 1278	COIN pretrig: 118 k ☒ Data ok ☐ Junk
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Run Number: 14472	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: 7 PS3: 1 PS4: 6 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 21:06:11 Stop time (RC GUI): 22:05:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 189 k $e-\pi n$ evts: 206	SHMS prescale pretrig: 311 k $\Sigma e-\pi n$ evts: 1484	COIN pretrig: 121 k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22/01/23
yy mm dd

Initials: SCD

Continuation of Configuration:

$Q^2=5$, $W=2.95$, $x=0.39$
low Σ , SHMS-LEFT

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

Run Number: 14473	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:05:43 Stop time (RC GUI): 23:05:42	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 153 k $e-\pi n$ evts: 175	SHMS prescale pretrig: 252 k $\Sigma e-\pi n$ evts: 1659	COIN pretrig: 105 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14474	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:06:15 Stop time (RC GUI): 0:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 169 k $e-\pi n$ evts: 174	SHMS prescale pretrig: 277 k $\Sigma e-\pi n$ evts: 1883	COIN pretrig: 111 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14475	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 0:05 Stop time (RC GUI): 0:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 127 k $e-\pi n$ evts: 161	SHMS prescale pretrig: 206 k $\Sigma e-\pi n$ evts: 1994	COIN pretrig: 92 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14476	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 1:06 Stop time (RC GUI): 2:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 114 k $e-\pi n$ evts: 141	SHMS prescale pretrig: 186 k $\Sigma e-\pi n$ evts: 2135	COIN pretrig: 83 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14477	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 2:02 Stop time (RC GUI): 3:02	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 92 k $e-\pi n$ evts: 102	SHMS prescale pretrig: 148 k $\Sigma e-\pi n$ evts: 2237	COIN pretrig: 75 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14478	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 3:02 Stop time (RC GUI): 4:03	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 199 k $e-\pi n$ evts: 245	SHMS prescale pretrig: 324 k $\Sigma e-\pi n$ evts: 2482	COIN pretrig: 122 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 2022 1 / 24
yy mm dd

Initials: *Rm*

Continuation of Configuration:

$Q^2 = 5$ $W = 2.95$ $x = 0.39$

low e SHMS-left

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

Run Number: 14479	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 4:03 Stop time (RC GUI): 05:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 210 k $e-\pi n$ evts: 222	SHMS prescale pretrig: 341 k $\Sigma e-\pi n$ evts: 2704	COIN pretrig: 130 k ☒ Data ok ☐ Junk
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Run Number: 14480	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 5:10 Stop time (RC GUI): 6:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 145 k $e-\pi n$ evts: 157	SHMS prescale pretrig: 233 k $\Sigma e-\pi n$ evts: 2861	COIN pretrig: 93 k ☒ Data ok ☐ Junk
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Run Number: 14481	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 6:06 Stop time (RC GUI): 7:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 220 k $e-\pi n$ evts: 226	SHMS prescale pretrig: 355 k $\Sigma e-\pi n$ evts: 3087	COIN pretrig: 135 k ☒ Data ok ☐ Junk
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Run Number: 14482	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 7:17 Stop time (RC GUI): 08:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 184 k $e-\pi n$ evts: 204	SHMS prescale pretrig: 297 k $\Sigma e-\pi n$ evts: 3291	COIN pretrig: 112 k ☒ Data ok ☐ Junk
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Run Number: 14483	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 08:16 Stop time (RC GUI): 09:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 175 k $e-\pi n$ evts: 194	SHMS prescale pretrig: 281 k $\Sigma e-\pi n$ evts: 3485	COIN pretrig: 110 k ☐ Data ok ☐ Junk
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Run Number: 14484	☒ 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>6</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): 09:16 Stop time (RC GUI): 10:17	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 167 k $e-\pi n$ evts: 205	SHMS prescale pretrig: 269 k $\Sigma e-\pi n$ evts: 3690	COIN pretrig: 106 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: 22 / 01 / 24
yy mm dd

Initials: S-J.
SCB

Continuation of Configuration:

$Q^2 = 5$ $W = 2.95$ $X = 0.39$

low W SHMS-left

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

Run Number: 14485	☐ 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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HMS Dipole Interlock j at the beginning

Run Number: 14486	☐ 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): 14:23 Stop time (RC GUI): 14:25	☐ 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
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Carbon hole for beam position check

Run Number: 14487	☐ 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): 14:25 Stop time (RC GUI): 14:30	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Carbon hole for beam position check

Run Number: 14488	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 9 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 14:43 Stop time (RC GUI): 15:43	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 177 k $e-\pi n$ evts: 205	SHMS prescale pretrig: 290 k $\Sigma e-\pi n$ evts: 3895	COIN pretrig: 114 k ☐ Data ok ☐ Junk
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Run Number: 14489	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:43 Stop time (RC GUI): 16:43:55	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 170 k $e-\pi n$ evts: 176	SHMS prescale pretrig: 279 k $\Sigma e-\pi n$ evts: 4071	COIN pretrig: 112 k ☐ Data ok ☐ Junk
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Run Number: 14490	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:44:27 Stop time (RC GUI): 17:44:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 150 k $e-\pi n$ evts: 156	SHMS prescale pretrig: 246 k $\Sigma e-\pi n$ evts: 4227	COIN pretrig: 102 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: 22 / 01 / 24
yy mm dd

Initials: SCB

Continuation of Configuration:

$Q^2=5$, $W=2.55$, $x=0.39$

low Σ , SHMS = LEFT

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

Run Number: 14491	☒ 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>6</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>17:50:03</u> Stop time (RC GUI): <u>18:50:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>180</u> k $e-\pi n$ evts: <u>192</u>	SHMS prescale pretrig: <u>295</u> k $\Sigma e-\pi n$ evts: <u>4419</u>	COIN pretrig: <u>116</u> k ☒ Data ok ☐ Junk
Comments:							

Run Number: 14492	☒ 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>6</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>18:50:42</u> Stop time (RC GUI): <u>19:49:25</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>175</u> k $e-\pi n$ evts: <u>187</u>	SHMS prescale pretrig: <u>287</u> k $\Sigma e-\pi n$ evts: <u>4606</u>	COIN pretrig: <u>113</u> k ☒ Data ok ☐ Junk
Comments: <u>Hobo-1x + AMT16 red. jumped to 150 mV (all others are ~ 0) in 50k reply</u>							

Run Number: 14493	☒ 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>6</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:50:08</u> Stop time (RC GUI): <u>20:51:28</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>82</u> k $e-\pi n$ evts: <u>103</u>	SHMS prescale pretrig: <u>131</u> k $\Sigma e-\pi n$ evts: <u>4709</u>	COIN pretrig: <u>70</u> k ☒ Data ok ☐ Junk
Comments: <u>unstable beam @ end of run (~ 50% of it)</u>							

Run Number: 14494	☒ 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>6</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>20:52:23</u> Stop time (RC GUI): <u>21:55:32</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>148</u> k $e-\pi n$ evts: <u>151</u>	SHMS prescale pretrig: <u>239</u> k $\Sigma e-\pi n$ evts: <u>4860</u>	COIN pretrig: <u>100</u> k ☐ Data ok ☐ Junk
Comments: <u>unstable beam ~ 20 min @ beginning of run</u>							

Run Number: 14495	☒ 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>6</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>21:56:05</u> Stop time (RC GUI): <u>22:10:31</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>20</u> k $e-\pi n$ evts: <u>22</u>	SHMS prescale pretrig: <u>32</u> k $\Sigma e-\pi n$ evts: <u>4882</u>	COIN pretrig: <u>17</u> k ☒ Data ok ☐ Junk
Comments: <u>SHORT RUN, Acc will TUNE the machine (estimated ~ 30 min) ~ 69k events</u>							

Run Number: 14496	☒ 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>6</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>22:24:14</u> Stop time (RC GUI): <u>23:24:25</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>162</u> k $e-\pi n$ evts: <u>192</u>	SHMS prescale pretrig: <u>265</u> k $\Sigma e-\pi n$ evts: <u>5074</u>	COIN pretrig: <u>108</u> k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 22 / 01 / 24
yy mm dd

Initials: SCA
RM

Continuation of Configuration:

$Q^2 = 5$, $W = 2.95$, $x = 0.99$

Low Σ , SHMS = LEFT

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

Run Number: 14497	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:24:57 Stop time (RC GUI): 0:25	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 161 k $e-\pi n$ evts: 179	SHMS prescale pretrig: 265 k $\Sigma e-\pi n$ evts: 5253	COIN pretrig: 107 k ☒ Data ok ☐ Junk
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Run Number: 14498	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: 9 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 0:31 Stop time (RC GUI): 1:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 6020 k $e-\pi n$ evts: 185	SHMS prescale pretrig: 299 k $\Sigma e-\pi n$ evts: 5438	COIN pretrig: 116 k ☒ Data ok ☐ Junk
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All of 6
100Hz of 3 $\nearrow$ HMS 3/4 trigger run

Run Number: 14499	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 1:32 Stop time (RC GUI): 2:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 49 k $e-\pi n$ evts: 53	SHMS prescale pretrig: 79 k $\Sigma e-\pi n$ evts: 5491	COIN pretrig: 44 k ☒ Data ok ☐ Junk
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Back to normal trigger. Ended run b/c beam went away, L105 lost voltage

Run Number: 14500	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 4:14 Stop time (RC GUI): 5:16	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 141 k $e-\pi n$ evts: 141	SHMS prescale pretrig: 227 k $\Sigma e-\pi n$ evts: 5632	COIN pretrig: 97 k ☒ Data ok ☐ Junk
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Run Number: 14501	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 5:17 Stop time (RC GUI): 6:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 46	SHMS prescale pretrig: 60 k $\Sigma e-\pi n$ evts: 5678	COIN pretrig: 48 k ☒ Data ok ☐ Junk
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Run Number: 14502	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 6:14 Stop time (RC GUI): 6:20	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts:	SHMS prescale pretrig: 60 k $\Sigma e-\pi n$ evts:	COIN pretrig: 4 k ☐ Data ok ☒ Junk
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Beam is somewhat unstable (pertains to previous run) $\swarrow$
 06:20 MCC says it cannot deliver beam to hodo also

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

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

Date: 22 / 04 / 25
yy mm dd

Initials: SCD

Continuation of Configuration:

$$Q^2 = 5, |x| = 2.95, x = 0.39$$

low E , SHMS LEFT

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

Run Number: 14504	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ COSMICS	PS1: 0 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:14:35 Stop time (RC GUI): 17:17:35	☐ 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: 14505	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ COSMICS	PS1: 0 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:02:43 Stop time (RC GUI): 22:02:28	☐ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☐ Data ok ☐ Junk
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Run Number: 14506	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ COSMICS	PS1: 0 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 01:30 Stop time (RC GUI): 14:03	☐ 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: 14507	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ COSMICS	PS1: 0 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:13 Stop time (RC GUI): 19:13:50	☐ 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: 14508	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ COSMICS	PS1: 0 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:25:17 Stop time (RC GUI): 23:40:24	☐ 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: 14509	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ Carbon Hole	PS1: 0 PS2: -1 PS3: 0 PS4: -1 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 04:30 Stop time (RC GUI): 04:31	☐ 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 pos. had run MLC correction set incorrect

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

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

Date: 22 / 1 / 27
yy mm dd

Initials: _____

Continuation of Configuration:

$Q^2 = 5$, $W = 2.95$, $x = 0.39$
low z , 5 Hms left

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

Run Number: 14510	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ Carbon fiber	PS1: 0 PS2: -1 PS3: 0 PS4: -1 PS5: 1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 4:31 Stop time (RC GUI): 4:36	☐ 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 pos 13 good.

Run Number: 145	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): Stop time (RC GUI):	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☐ Data ok ☐ Junk
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Run Number: 14511	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ Carbon fiber	PS1: 0 PS2: 1 PS3: -1 PS4: 0 PS5: 1 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 12:23 Stop time (RC GUI): 12:27	☐ 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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5A Tuned beam (need CW)

Run Number: 14512	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☒ Carbon fiber	PS1: 0 PS2: -1 PS3: 1 PS4: 0 PS5: 1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:29 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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~10 μ A CW beam

Run Number: 14513	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 12 PS2: 1 PS3: 1 PS4: 6 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 12:46 Stop time (RC GUI): 13:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 47	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: 5725	COIN pretrig: k ☒ Data ok ☐ Junk
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70 μ A, Run ended, magnet failure in BST again

Run Number: 14514	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:21 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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70 μ A Beam is back for just a few minutes

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

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

Date: 22 / 1 / 27
yy mm dd

Initials: SJ

Continuation of Configuration:

$Q^2 = 5$ $W = 2.95$ $X = 0.39$

Combinator SHMS left

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

Run Number: 14515	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 6 PS6: 5 Mode10: cer / fadc	Start time (RC GUI): 20:06 Stop time (RC GUI): 21:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 183 k $e-\pi n$ evts: 208	SHMS prescale pretrig: 308 k $\Sigma e-\pi n$ evts: 5933	COIN pretrig: 115 k ☒ Data ok ☐ Junk
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Run Number: 14516	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 21:06 Stop time (RC GUI): 22:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 185 k $e-\pi n$ evts: 203	SHMS prescale pretrig: 314 k $\Sigma e-\pi n$ evts: 6136	COIN pretrig: 117 k ☒ Data ok ☐ Junk
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Run Number: 14517	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 22:07 Stop time (RC GUI): 23:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 194 k $e-\pi n$ evts: 236	SHMS prescale pretrig: 330 k $\Sigma e-\pi n$ evts: 6372	COIN pretrig: 120 k ☒ Data ok ☐ Junk
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Run Number: 14518	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 23:08 Stop time (RC GUI): 00:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 171 k $e-\pi n$ evts: 187	SHMS prescale pretrig: 288 k $\Sigma e-\pi n$ evts: 6559	COIN pretrig: 107 k ☒ Data ok ☐ Junk
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Run Number: 14519	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 9 PS6: 9 Mode10: cer / fadc	Start time (RC GUI): 00:06 Stop time (RC GUI): 1:06	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 189 k $e-\pi n$ evts: 183	SHMS prescale pretrig: 320 k $\Sigma e-\pi n$ evts: 6742	COIN pretrig: 118 k ☒ Data ok ☐ Junk
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Run Number: 14520	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 9 PS6: 9 Mode10: cer / fadc	Start time (RC GUI): 1:06 Stop time (RC GUI): 2:04	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 166 k $e-\pi n$ evts: 181	SHMS prescale pretrig: 280 k $\Sigma e-\pi n$ evts: 6923	COIN pretrig: 107 k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22 / 01 / 28
yy mm dd

Initials: EF

Continuation of Configuration:

$$Q^2 = 5 \text{ GeV}^2, W = 2.95 \text{ GeV}, x = 0.39$$

low E SHMS Left

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

Run Number: 14521	☒ 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>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>2:06</u> Stop time (RC GUI): <u>3:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>195</u> k SHMS prescale: <u>331</u> k COIN pretrig: <u>121</u> k $e-\pi n$ evts: <u>211</u> $\Sigma e-\pi n$ evts: <u>7134</u>	☒ Data ok ☐ Junk
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Run Number: 14522	☒ 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>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:06</u> Stop time (RC GUI): <u>4:06</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>184</u> k SHMS prescale: <u>311</u> k COIN pretrig: <u>116</u> k $e-\pi n$ evts: <u>217</u> $\Sigma e-\pi n$ evts: <u>7351</u>	☒ Data ok ☐ Junk
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Run Number: 14523	☒ 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>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:06</u> Stop time (RC GUI): <u>5:06</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>190</u> k SHMS prescale: <u>321</u> k COIN pretrig: <u>118</u> k $e-\pi n$ evts: <u>211</u> $\Sigma e-\pi n$ evts: <u>7562</u>	☒ Data ok ☐ Junk
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Run Number: 14524	☒ 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>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>5:06</u> Stop time (RC GUI): <u>6:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>183</u> k SHMS prescale: <u>314</u> k COIN pretrig: <u>116</u> k $e-\pi n$ evts: <u>216</u> $\Sigma e-\pi n$ evts: <u>7778</u>	☒ Data ok ☐ Junk
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Run Number: 14525	☒ 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>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>6:07</u> Stop time (RC GUI): <u>7:07</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>189</u> k SHMS prescale: <u>318</u> k COIN pretrig: <u>118</u> k $e-\pi n$ evts: <u>216</u> $\Sigma e-\pi n$ evts: <u>7994</u>	☒ Data ok ☐ Junk
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Run Number: 14526	☒ 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>6</u> PS5: <u>9</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>7:07</u> Stop time (RC GUI): <u>8:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale: <u>166</u> k SHMS prescale: <u>278</u> k COIN pretrig: <u>105</u> k $e-\pi n$ evts: <u>187</u> $\Sigma e-\pi n$ evts: <u>8181</u>	☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22 / 01 / 28
yy mm dd

Initials: EF

Continuation of Configuration:

$Q^2 = S$, $W = 2.95$, $x = 0.39$

low E, SHMS left.

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

Run Number: 14527	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 8:04 Stop time (RC GUI): 9:05	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 176 k $e-\pi n$ evts: 207	SHMS prescale pretrig: 292 k $\Sigma e-\pi n$ evts: 8388	COIN pretrig: 111 k ☒ Data ok ☐ Junk
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Run Number: 14528	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 9:06 Stop time (RC GUI): 10:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 174 k $e-\pi n$ evts: 194	SHMS prescale pretrig: 290 k $\Sigma e-\pi n$ evts: 8582	COIN pretrig: 113 k ☒ Data ok ☐ Junk
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HMS Hodo-IX-, PMT 16 pedestal high

Run Number: 14529	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 10:14 Stop time (RC GUI): 11:18	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 96 k $e-\pi n$ evts: 89	SHMS prescale pretrig: 159 k $\Sigma e-\pi n$ evts: 8671	COIN pretrig: 79 k ☒ Data ok ☐ Junk
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Run Number: 14530	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 11:25 Stop time (RC GUI): 12:28	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 138 k $e-\pi n$ evts: 168	SHMS prescale pretrig: 229 k $\Sigma e-\pi n$ evts: 8839	COIN pretrig: 96 k ☒ Data ok ☐ Junk
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Run Number: 14531	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 12:29 Stop time (RC GUI): 13:34	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 180 k $e-\pi n$ evts: 200	SHMS prescale pretrig: 299 k $\Sigma e-\pi n$ evts: 9039	COIN pretrig: 115 k ☒ Data ok ☐ Junk
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Run Number: 14532	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:35 Stop time (RC GUI): 14:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 167 k $e-\pi n$ evts: 222	SHMS prescale pretrig: 278 k $\Sigma e-\pi n$ evts: 9261	COIN pretrig: 107 k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22 / 01 / 28
yy mm dd

Initials: ERK

Continuation of Configuration:

$Q^2 = 5 \text{ GeV}^2$, $W = 2.95$, $x = 0.39$

low E, SHMS left

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

Run Number: 14533	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:34 Stop time (RC GUI): 15:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 44 k $e-\pi n$ evts: 40	SHMS prescale pretrig: 72 k $\Sigma e-\pi n$ evts: 9301	COIN pretrig: 51 k ☒ Data ok ☐ Junk
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Run Number: 14534	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:50 Stop time (RC GUI): 16:50	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 185 k $e-\pi n$ evts: 226217	SHMS prescale pretrig: 307 k $\Sigma e-\pi n$ evts: 9518	COIN pretrig: 115 k ☒ Data ok ☐ Junk
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Run Number: 14535	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:50 Stop time (RC GUI): 17:50	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 149 k $e-\pi n$ evts: 154	SHMS prescale pretrig: 247 k $\Sigma e-\pi n$ evts: 9672	COIN pretrig: 98 k ☒ Data ok ☐ Junk
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Run Number: 14536	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:50 Stop time (RC GUI): 17:53	☒ 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: 14537	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:17:59 Stop time (RC GUI): 18:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 170 k $e-\pi n$ evts: 213	SHMS prescale pretrig: 283 k $\Sigma e-\pi n$ evts: 9885	COIN pretrig: 107 k ☐ Data ok ☐ Junk
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Run Number: 14538	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 18:59 Stop time (RC GUI): 19:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 165 k $e-\pi n$ evts: 201	SHMS prescale pretrig: 275 k $\Sigma e-\pi n$ evts: 10086	COIN pretrig: 108 k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22/01/28
yy mm dd

Initials: SJ

Continuation of Configuration:

$Q^2 \sim 5 \text{ GeV}^2$ $W = 2.95$ $X = 0.34$

long SHMS Left

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

Run Number: 14539	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 12 PS2: 1 PS3: 1 PS4: 8 PS5: 5 PS6: 5 Mode10: cer / fadc	Start time (RC GUI): 20:00 Stop time (RC GUI): 20:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 62 k $e-\pi n$ evts: 55	SHMS prescale pretrig: 103 k $\Sigma e-\pi n$ evts: 1141	COIN pretrig: 39 k ☐ Data ok ☐ Junk
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Run Number: 14540	☐ 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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forget to prescale.

Run Number: 14541	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 9 PS2: 1 PS3: 1 PS4: 3 PS5: 1 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 20:30 Stop time (RC GUI): 21:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 22 k $e-\pi n$ evts: 8	SHMS prescale pretrig: 22 k $\Sigma e-\pi n$ evts: 8	COIN pretrig: 38 k ☒ Data ok ☐ Junk
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Run Number: 14542	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 9 PS2: 1 PS3: 1 PS4: 3 PS5: 1 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 21:33 Stop time (RC GUI): 22:33	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 294 k $e-\pi n$ evts: 6	SHMS prescale pretrig: 241 k $\Sigma e-\pi n$ evts: 14	COIN pretrig: 38 k ☒ Data ok ☐ Junk
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Run Number: 14543	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 9 PS2: 1 PS3: 1 PS4: 3 PS5: 1 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 22:33 Stop time (RC GUI): 23:32	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 286 k $e-\pi n$ evts: 8	SHMS prescale pretrig: 234 k $\Sigma e-\pi n$ evts: 22	COIN pretrig: 37 k ☒ Data ok ☐ Junk
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Run Number: 14544	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 9 PS2: 1 PS3: 1 PS4: 3 PS5: 1 PS6: 1 Mode10: cer / fadc	Start time (RC GUI): 23:33 Stop time (RC GUI): 0:33	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 308 k $e-\pi n$ evts: 8	SHMS prescale pretrig: 253 k $\Sigma e-\pi n$ evts: 30	COIN pretrig: 38 k ☒ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22/01/29
yy mm dd

Initials: EF

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name:
Q²=2.45, W=3.20, x=0.21,
low E, SHMS left, config #1

E_{beam}: 3.973 GeV I_{beam}: 70 μ A

HMS
p: +0.644 θ (TV): 25.035
From GUI Nearest 0.005

SHMS
p: -6.2650 θ (TV): 8.160
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: 2x2

Beam position and angle on target:

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

Q1	I-SET (from PSU) 214.1060 A B-HALL	I-SET (from PSU) 210.0700 A B-HALL	HB
	0.2814 T	-13.396 kG	
Q2	I-SET (from PSU) 170.1500 A B-HALL	I-SET (from PSU) 137.9000 A B-HALL	Q1
	-0.3024 T	9.357 kG	
Q3	I-SET (from PSU) 82.6634 A B-HALL	I-SET (from PSU) 2209.5500 A B-HALL	Q2
	0.1612 T	-20.838 kG	
D	I-READ 501.78 A B-NMR	I-SET (from PSU) 1453.86 A B-HALL	Q3
	0.4498490 T	-14.055 kG	
	If momentum increased: ☒ HMS cycled? ☐ SHMS cycled?		D
	1998.99 A B-NMR		
	14.468 kG		

Run Number: 14545	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: 5 PS4: 0 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 2:10 Stop time (RC GUI): 2:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 79 k $e-\pi n$ evts: 796	SHMS prescale pretrig: 76 k $\Sigma e-\pi n$ evts: 796	COIN pretrig: 374 k ☒ Data ok ☐ Junk
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HMS off by +0.015 deg (25.035 instead of 25.02)

14546 is junk

Run Number: 14547	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 2:48:27 Stop time (RC GUI): 2:50:40	☒ 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 Mode, HMS@25.035 instead of 25.02

Run Number: 14548	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: -9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 2:53 Stop time (RC GUI): 3:53	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 208 k $e-\pi n$ evts: 2206	SHMS prescale pretrig: 199 k $\Sigma e-\pi n$ evts: 3002	COIN pretrig: 965 k ☒ Data ok ☐ Junk
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HMS@25.035 instead of 25.02

Run Number: 14549	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: -7 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 3:53 Stop time (RC GUI): 4:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 189 k $e-\pi n$ evts: 1909	SHMS prescale pretrig: 181 k $\Sigma e-\pi n$ evts: 3911	COIN pretrig: 881 k ☒ Data ok ☐ Junk
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HMS@25.035 instead of 25.02

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

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

Date: 22 / 01 / 29
yy mm dd

Initials: EF

Continuation of Configuration:

$Q^2=2.45, W=3.20, x=0.21$

low BE, SHMS left, config #1

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

Run Number: 14550	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 4:49 Stop time (RC GUI): 5:45	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 189 k $e-\pi n$ evts: 1962	SHMS prescale pretrig: 139 k $\Sigma e-\pi n$ evts: 5853	COIN pretrig: 879 k ☒ Data ok ☐ Junk
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HMS @ 25.035 instead of 25.02

Run Number: 14551	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 9 PS6: 9 Mode10: cer / fadc	Start time (RC GUI): 5:47 Stop time (RC GUI): 6:47	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 215 k $e-\pi n$ evts: 2110	SHMS prescale pretrig: 203 k $\Sigma e-\pi n$ evts: 7963	COIN pretrig: 985 k ☒ Data ok ☐ Junk
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HMS @ 25.035 instead of 25.02

Run Number: 14552	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 9 PS6: 9 Mode10: cer / fadc	Start time (RC GUI): 6:47 Stop time (RC GUI): 7:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 196 k $e-\pi n$ evts: 2035	SHMS prescale pretrig: 184 k $\Sigma e-\pi n$ evts: 9998	COIN pretrig: 898 k ☒ Data ok ☐ Junk
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HMS @ 25.035 instead of 25.02

Run Number: 14553	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 7:47 Stop time (RC GUI): 8:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 217 k $e-\pi n$ evts: 2150	SHMS prescale pretrig: 204 k $\Sigma e-\pi n$ evts: 12148	COIN pretrig: 1009 k ☒ Data ok ☐ Junk
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HMS @ 25.035 instead of 25.02

Run Number: 14554	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 10 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 8:57 Stop time (RC GUI): 9:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 154 k $e-\pi n$ evts: 90	SHMS prescale pretrig: 157 k $\Sigma e-\pi n$ evts: 90	COIN pretrig: 58 k ☐ Data ok ☐ Junk
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HMS @ 25.035 instead of 25.02

Run Number: 14555	☒ 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): 10:09 Stop time (RC GUI): 10:12	☐ 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 (Junk)

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

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

Date: 22 / 01 / 29
yy mm dd

Initials: DA

Continuation of Configuration:

$Q^2 = 2.45$, $W = 3.20$, $x = 0.21$
low ϵ , SHMS left, config #1.

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

Run Number: 4556	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: 12 PS3: 12 PS4: 1 PS5: 1 PS6: 8 Mode10: cer / fadc	Start time (RC GUI): 10:13 Stop time (RC GUI): 10:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 2066 k $e-\pi n$ evts: 819	SHMS prescale pretrig: 74 k $\Sigma e-\pi n$ evts: 12967	COIN pretrig: 367 k ☒ Data ok ☐ Junk
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HMS 3/4 Trigger, HMS @ 25.035 instead of 25.02

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

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

Date: 22 / 01 / 29
yy mm dd

Initials: DA

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____

$B^2 = 2.45$, $W = 3.20$, $X = 0.21$
low ϵ , SHMS center

E_{beam} : 7.914 GeV

I_{beam} : 55 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-0.56</u> mm		<u>-0.31</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-1.81</u> mm		<u>-0.44</u> mm
Nomin:		Nomin:

Q1	I-SET (from PSU) <u>214.21</u> A B-HALL	A	I-SET (from PSU) <u>2109.35</u> A B-HALL	A	HB
	<u>0.28530</u> T		<u>-13.395</u> kG		
Q2	I-SET (from PSU) <u>170.12</u> A B-HALL	A	I-SET (from PSU) <u>1317.56</u> A B-HALL	A	Q1
	<u>-0.302435</u> T		<u>9.377</u> kG		
Q3	I-SET (from PSU) <u>32.64</u> A B-HALL	A	I-SET (from PSU) <u>2208.88</u> A B-HALL	A	Q2
	<u>0.16249</u> T		<u>-20.839</u> kG		
D	I-READ <u>501.81</u> A B-NMR	A	I-SET (from PSU) <u>1453.32</u> A B-HALL	A	Q3
	<u>0.44992</u> T		<u>-14.055</u> kG		
	If momentum increased:		I-SET (from PSU)		
	☒ HMS cycled?		<u>1998.36</u> A	A	D
	☒ SHMS cycled?		<u>14468</u> kG		

Run Number:

14557

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

PS1: 14
PS2: -1
PS3: -1
PS4: 9
PS5: 8
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

11:39

Stop time (RC GUI):

11:42

☒ Settings Verified?

☒ HV OK?

☐ 50k OK?

HMS prescale
pretrig: _____ k

$e-\pi n$ evts:

SHMS prescale
pretrig: _____ k

$\Sigma e-\pi n$ evts:

COIN
pretrig: _____ k

☐ Data ok

☐ Junk

Comments:

fademade10 run, HMS @ 25.035 instead of 25.02

Run Number:

14558

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

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

Start time (RC GUI):

Stop time (RC GUI):

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS prescale
pretrig: _____ k

$e-\pi n$ evts:

SHMS prescale
pretrig: _____ k

$\Sigma e-\pi n$ evts:

COIN
pretrig: _____ k

☐ Data ok

☒ Junk

Comments:

CODA crashed (failed) during prestart.

Run Number:

14559

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

PS1: 14
PS2: -1
PS3: 11
PS4: -1
PS5: -1
PS6: 8
Mode10: cer / fadc

Start time (RC GUI):

11:48

Stop time (RC GUI):

12:08

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 14653 k

$e-\pi n$ evts:

786

SHMS prescale
pretrig: 76 k

$\Sigma e-\pi n$ evts:

786

COIN
pretrig: 587 k

☒ Data ok

☐ Junk

Comments:

HMS 3/4 Trigger, HMS @ 25.035 instead of 25.02

Run Number:

14560

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

PS1: 14
PS2: -1
PS3: -1
PS4: 9
PS5: 8
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

12:10

Stop time (RC GUI):

13:10

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 137 k

$e-\pi n$ evts:

2027

SHMS prescale
pretrig: 182 k

$\Sigma e-\pi n$ evts:

2813

COIN
pretrig: 1411 k

☒ Data ok

☐ Junk

Comments:

HMS @ 25.035 instead of 25.02

p(e,e' π)n Run Sheet

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

Date: 22 / 01 / 29
yy mm dd

Initials: DA
SCB

Continuation of Configuration:

$Q^2 = 2.45$, $W = 3.20$, $x = 0.21$
low E, SHMS center

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

Run Number: 14561	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 14 PS2: -1 PS3: -1 PS4: 9 PS5: 2 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 13:10 Stop time (RC GUI): 14:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 178 k $e-\pi n$ evts: 2691	SHMS prescale pretrig: 236 k $\Sigma e-\pi n$ evts: 5504	COIN pretrig: 1832 k ☒ Data ok ☐ Junk
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HMS @ 25.035 instead of 25.02.

Run Number: 14562	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 14 PS2: -1 PS3: -1 PS4: 9 PS5: 2 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 14:10 Stop time (RC GUI): 15:10	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 138 k $e-\pi n$ evts: 2034	SHMS prescale pretrig: 182 k $\Sigma e-\pi n$ evts: 7538	COIN pretrig: 1428 k ☒ Data ok ☐ Junk
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HMS @ 25.035 instead of 25.02

Run Number: 14563	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 14 PS2: -1 PS3: -1 PS4: 9 PS5: 2 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 15:10 Stop time (RC GUI): 16:14:12	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 182 k $e-\pi n$ evts: 2745	SHMS prescale pretrig: 240 k $\Sigma e-\pi n$ evts: 10283	COIN pretrig: 1878 k ☐ Data ok ☐ Junk
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Run Number: 14564	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 14 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 16:14:47 Stop time (RC GUI): 17:15:20	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 178 k $e-\pi n$ evts: 2619	SHMS prescale pretrig: 235 k $\Sigma e-\pi n$ evts: 12902	COIN pretrig: 1842 k ☐ Data ok ☐ Junk
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Run Number: 14565	☐ 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): 17:24:27 Stop time (RC GUI): 17:29:42	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: 2 k $e-\pi n$ evts: 5	SHMS prescale pretrig: 1 k $\Sigma e-\pi n$ evts:	COIN pretrig: 6 k ☐ Data ok ☒ Junk
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Reset the prescales for 40pA on 10min at dummy

Run Number: 14566	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 11 PS2: -1 PS3: -1 PS4: 7 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 17:30:12 Stop time (RC GUI): 18:31:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 172 k $e-\pi n$ evts: 159	SHMS prescale pretrig: 245 k $\Sigma e-\pi n$ evts: 164	COIN pretrig: 98 k ☐ Data ok ☐ Junk
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