

p(e,e' π)n Run Sheet

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

Date: 22/8/14
yy mm dd

Initials: SJPK

Use a separate sheet for each configuration.

Configuration Name: _____
 $Q^2 = 2.45$ $w = 3.20$
 $x = 0.21$ mid E SHMS (off)
 Part 2

E_{beam} : 8.474 GeV I_{beam} : 80 μA

HMS
 p : 7.13 $\theta(TV)$: 20.835
From GUI Nearest 0.005

SHMS
 p : +6.2650 $\theta(TV)$: 8.93
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
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>285.65</u> A B-HALL <u>0.37690</u> T	I-SET (from PSU) <u>2110.07</u> A B-HALL <u>-13.396</u> kg	HB
Q2	I-SET (from PSU) <u>227.061</u> A B-HALL <u>-0.41918</u> T	I-SET (from PSU) <u>1317.9</u> A B-HALL <u>9.387</u> kg	Q1
Q3	I-SET (from PSU) <u>110.356</u> A B-HALL <u>0.22162</u> T	I-SET (from PSU) <u>2209.55</u> A B-HALL <u>-20.835</u> kg	Q2
D	I-READ <u>670.01</u> A B-NMR <u>0.6003710</u> T	I-SET (from PSU) <u>1453.86</u> A B-HALL <u>-14.044</u> kg	Q3
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>1998.91</u> A B-NMR <u>14.455</u> kg	D

Run Number: <u>16159</u>	<input checked="" 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: <u>12</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>07:39</u> Stop time (RC GUI): <u>08:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>222</u> k pretrig: $e-\pi n$ evts: <u>3786</u>	SHMS prescale <u>270</u> k pretrig: $\Sigma e-\pi n$ evts: <u>12,821</u>	COIN pretrig: <u>1015</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: Need 14000+ π $\approx Q = 415,454$ \downarrow \uparrow $Q = 172.772$ $+9035$ $Q_{tot} = 545,64$

Run Number: <u>16160</u>	<input checked="" 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: <u>12</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> 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 checked="" type="checkbox"/> Junk
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Comments: SHMS Q2 tripped right at beginning of run!

Run Number: <u>16161</u>	<input checked="" 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: <u>12</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>09:49</u> Stop time (RC GUI): <u>10:31:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale <u>179</u> k pretrig: $e-\pi n$ evts: <u>3,073</u>	SHMS prescale <u>216</u> k pretrig: $\Sigma e-\pi n$ evts: <u>15,894</u>	COIN pretrig: <u>811</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: $Q = 138,797$ mC
 $Q_{tot} = 727.42$ mC

Run Number: <u>16162</u>	<input checked="" 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: <u>9</u> 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 <u>169</u> k pretrig: $e-\pi n$ evts: <u>ep</u> <u>15891</u>	SHMS prescale <u>206</u> k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: <u>48</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: Heap $Q = 81.092$ mC