

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

can be found at [lichen.phys.uregina.ca/~huberg/fpi/](http://lichen.phys.uregina.ca/~huberg/fpi/)

Date: 22 / 06 / 20  
yy mm dd

Initials: P.S.

Use a separate sheet for each configuration.

**Configuration Name:**  
WIPER, SHMS Elastics 6 GeV

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

**E<sub>beam</sub>:** 10,536 GeV    **I<sub>beam</sub>:** 45  $\mu$ A

**Raster:**  On  Off  
**Size:** 2x2

**HMS**  
**p: +/-** \_\_\_\_\_  **$\theta$ (TV):** 18,05  
From GUI                      Nearest 0.005

**Beam position and angle on target:**

3H07A	X	-0,09	mm	Y	-0,3	mm
Nomin:				Nomin:		
3H07C	X	-0,68	mm	Y	-0,49	mm
Nomin:				Nomin:		

**SHMS**  
**p: +/-** \_\_\_\_\_  **$\theta$ (TV):** 18,05  
From GUI                      Nearest 0.005

**Collimator:**    **HMS:** Large  Sieve     **SHMS:** Collim  Sieve

	HMS		SHMS	
Q1	I-SET (from PSU) <u>892,05</u> A B-HALL		I-SET (from PSU) <u>1158,6</u> A B-HALL	HB
	<u>1,18090</u> T		<u>-7,326</u> KG	
Q2	I-SET (from PSU) <u>736,10</u> A B-HALL		I-SET (from PSU) <u>733,2</u> A B-HALL	Q1
	<u>-1,41837</u> T		<u>5,243</u> KG	
Q3	I-SET (from PSU) <u>342,28</u> A B-HALL		I-SET (from PSU) <u>1232,24</u> A B-HALL	Q2
	<u>0,68703</u> T		<u>-11,613</u> KG	
D	I-READ <u>2409,57</u> A B-NMR		I-SET (from PSU) <u>810,48</u> A B-HALL	Q3
	<u>1,890</u> T		<u>-7,868</u> KG	
	If momentum increased:		I-SET (from PSU) <u>1114,44</u> A B-NMR	D
	<input type="checkbox"/> HMS cycled?		<u>8,074</u> KG	
	<input type="checkbox"/> SHMS cycled?			

<b>Run Number:</b> <u>15035</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics _____ cm <input type="checkbox"/> _____	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	<b>Start time (RC GUI):</b> <u>05:17</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>HMS prescale pretrig:</b> k <u>e-<math>\pi</math>n</u> evts:	<b>SHMS prescale pretrig:</b> k <u><math>\Sigma</math> e-<math>\pi</math>n</u> evts:	<b>COIN pretrig:</b> k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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DUMMY LOW RATE, ADJUSTING PRESCALES

<b>Run Number:</b> <u>15036</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics _____ cm <input type="checkbox"/> _____	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	<b>Start time (RC GUI):</b> <u>05:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>HMS prescale pretrig:</b> k <u>e-<math>\pi</math>n</u> evts:	<b>SHMS prescale pretrig:</b> k <u><math>\Sigma</math> e-<math>\pi</math>n</u> evts:	<b>COIN pretrig:</b> k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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SHMS MOMENTUM AND ANGLE ARE CHANGING MEANWHILE

<b>Run Number:</b> <u>15037</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>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	<b>Start time (RC GUI):</b> <u>05:40</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	<b>HMS prescale pretrig:</b> k <u>e-<math>\pi</math>n</u> evts:	<b>SHMS prescale pretrig:</b> k <u><math>\Sigma</math> e-<math>\pi</math>n</u> evts:	<b>COIN pretrig:</b> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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KEEP SINGLES

<b>Run Number:</b> <u>15038</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>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	<b>Start time (RC GUI):</b> <u>06:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	<b>HMS prescale pretrig:</b> k <u>e-<math>\pi</math>n</u> evts:	<b>SHMS prescale pretrig:</b> k <u><math>\Sigma</math> e-<math>\pi</math>n</u> evts:	<b>COIN pretrig:</b> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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RUN FULL 350000 events