

p(e,e'π)n Run Sheet

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

Date: 19/06/26
yy mm dd

Initials: GH

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name:
Luminosity Scan

Purpose:
 Production
 Test
 Optics
 Other: Lumi

E_{beam}: 2775 GeV **I_{beam}:** Various μA

Raster: On Off
Size: 2x2

HMS
p: +0.1500 **θ(TV):** 11.500
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>0.002</u> mm		<u>0.216</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.834</u> mm		<u>0.624</u> mm
Nomin:		Nomin:

SHMS
p: +0.1500 **θ(TV):** 9.500
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Q1	I-SET (from PSU) <u>195.3400</u> A B-HALL <u>0.190</u> kG	A	I-SET (from PSU) <u>495.3310</u> A B-HALL <u>3.132</u> kG	A	HB
Q2	I-SET (from PSU) <u>155.2226</u> A B-HALL <u>-0.272</u> kG	A	I-SET (from PSU) <u>314.9550</u> A B-HALL <u>-2.232</u> kG	A	Q1
Q3	I-SET (from PSU) <u>75.8158</u> A B-HALL <u>0.150</u> kG	A	I-SET (from PSU) <u>529.0220</u> A B-HALL <u>4.948</u> kG	A	Q2
D	I-READ <u>458.28</u> A B-NMR <u>0.4106504</u> T	A	I-SET (from PSU) <u>348.0920</u> A B-HALL <u>3.397</u> kG	A	Q3
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?		I-SET (from PSU) <u>478.5910</u> A B-NMR <u>-3.480</u> kG	A	D

Run Number: 8456
 LH2 10cm PS1: -1
 LD2 10cm PS2: 10
 MT thick 10cm PS3: 9
 C 1.5% r.l. PS4: -1
 C 0.5% r.l. PS5: -1
 PS6: -1

Start time (from RC): 20:13 Settings Verified?
Stop time (from RC): 20:18 HV OK?
 50k OK?

HMS prescale: 244 k SHMS prescale: 411 k COIN pretrig: / k
e-πn evts: Σ e-πn evts: Data ok
 Junk

Comments: 40nA Stop due to beam trip # Good HMS = 126k
Good SHMS = 122k.

Run Number: 8457
 LH2 10cm PS1: -1
 LD2 10cm PS2: 10
 MT thick 10cm PS3: 9
 C 1.5% r.l. PS4: -1
 C 0.5% r.l. PS5: -1
 PS6: -1

Start time (from RC): 20:23 Settings Verified?
Stop time (from RC): 20:30 HV OK?
 50k OK?

HMS prescale: 399 k SHMS prescale: 673 k COIN pretrig: / k
e-πn evts: Σ e-πn evts: Data ok
 Junk

Comments: 40nA 1.2M total events Stop due to beam trip
Good HMS = 206k
Good SHMS = 199k.

Run Number: 8458
 LH2 10cm PS1: -1
 LD2 10cm PS2: 16
 MT thick 10cm PS3: 9
 C 1.5% r.l. PS4: -1
 C 0.5% r.l. PS5: -1
 PS6: -1

Start time (from RC): 20:36 Settings Verified?
Stop time (from RC): 20:46 HV OK?
 50k OK?

HMS prescale: ? k SHMS prescale: ? k COIN pretrig: / k
e-πn evts: Σ e-πn evts: Data ok
 Junk

Comments: 40nA 1.7M total events Root plots did not come out

Run Number: 8460
 LH2 10cm PS1: -1
 LD2 10cm PS2: 10
 MT thick 10cm PS3: 8
 C 1.5% r.l. PS4: -1
 C 0.5% r.l. PS5: -1
 PS6: -1

Start time (from RC): 20:49 Settings Verified?
Stop time (from RC): 20:53 HV OK?
 50k OK?

HMS prescale: 325 k SHMS prescale: 262 k COIN pretrig: / k
e-πn evts: Σ e-πn evts: Data ok
 Junk

Comments: 25nA 0.64M total events # Good HMS 168k
Good SHMS 85k.

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

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

Date: 19/06/20
yy mm dd

Initials: GH

Continuation of Configuration:

Carbon Limb scan

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

Run Number: 8461	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>10</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:55</u> Stop time (from RC): <u>20:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u> </u> k $e-\pi n$ evts: <u> </u>	SHMS prescale pretrig: <u> </u> k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: <u> </u> k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
----------------------------	---	---	---	---	---	---	---

Comments: 25nA 530k total events short run. Beam tripped.

Run Number: 8462	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>10</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>20:58</u> Stop time (from RC): <u>21:08</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>756</u> k $e-\pi n$ evts: <u> </u>	SHMS prescale pretrig: <u>610</u> k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: <u> </u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	---	---	---	--	--	---

Comments: 25nA 1.5M total events ± good HMS 390k
± good SHMS 199k

Run Number: 8463	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>10</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:09</u> Stop time (from RC): <u>21:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>574</u> k $e-\pi n$ evts: <u> </u>	SHMS prescale pretrig: <u>395</u> k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: <u> </u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	---	---	---	--	--	---

Comments: 25nA 960k events ± good HMS 252k
± good SHMS 128k

Run Number: 8464	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:18</u> Stop time (from RC): <u>21:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>909</u> k $e-\pi n$ evts: <u> </u>	SHMS prescale pretrig: <u>1.3M</u> k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: <u> </u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	---	---

Comments: 16nA 2.2M events ± good HMS 198k
± good SHMS 208k

Run Number: 8465	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>21:35</u> Stop time (from RC): <u>21:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>546</u> k $e-\pi n$ evts: <u> </u>	SHMS prescale pretrig: <u>770</u> k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: <u> </u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	--	---

Comments: 10nA 1.6 M events ± good HMS 169k
± good SHMS 181k

Run Number: 8466	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:00</u> Stop time (from RC): <u>23:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>413</u> k $e-\pi n$ evts: <u> </u>	SHMS prescale pretrig: <u>583</u> k $\Sigma e-\pi n$ evts: <u> </u>	COIN pretrig: <u> </u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	--	---

Comments: 10nA 1.2M

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

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

Date: 19/06/26
yy mm dd

Initials: GH

Continuation of Configuration:

Carbon Lumi

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

Run Number: 8467	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: <u>8</u> PS3: <u>6</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): 23:16 Stop time (from RC): 23:33	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 2008 k $e-\pi n$ evts:	SHMS prescale pretrig: 1443 k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 7.5 μA 3-3 M events							

Run Number: 8468	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: <u>7</u> PS3: <u>6</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments: 5.2 μA							

Run Number: 8469	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: <u>7</u> PS3: <u>6</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): 23:36 Stop time (from RC): 23:49	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 1059 k $e-\pi n$ evts:	SHMS prescale pretrig: 1509 k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 5.2 μA 2.4 M events							

Run Number: 8470	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>7</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): 23:53 Stop time (from RC): 00:09	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 567 k $e-\pi n$ evts:	SHMS prescale pretrig: 414 k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: 3.05 μA							

Run Number: 8471	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: <u>7</u> PS3: <u>5</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): 00:27 Stop time (from RC): 00:28	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments: Beam trip when data taking started							

Run Number: 8472	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>7</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): 00:29 Stop time (from RC): 00:37	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 9608 k $e-\pi n$ evts:	SHMS prescale pretrig: 6658 k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk ↑?
Comments: 60 μA HV: DC's in SHMS off 2YHodo illegal val SHMS							

Com

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

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

Date: 19 / 06 / 27
yy mm dd

Initials: Cam

Continuation of Configuration:

Carbon Lumi

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

Run Number: <u>8473</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: <u>11</u> PS3: <u>9</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>00:44</u> Stop time (from RC): <u>00:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u> </u> k $e-\pi n$ evts: _____	SHMS prescale pretrig: <u> </u> k $\Sigma e-\pi n$ evts: _____	COIN pretrig: <u> </u> k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments: <u>50 μA</u>							

Run Number: <u>8476</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: <u>10</u> PS3: <u>9</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>01:22</u> Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

p(e,e'π)n Run Sheet

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

Date: 19/06/27
yy mm dd

Initials: cam

Use a separate sheet for each configuration.

Configuration Name: _____
Hydrogen Lumi

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam}: 2.758 GeV
2.774 GeV
I_{beam}: Varies μA

Raster: On Off
Size: 2x2 mm²

HMS
p: +/- 1.500 From GUI
θ(TV): 11.590 Nearest 0.005

SHMS
p: +/- 1.500 From GUI
θ(TV): 9.490 Nearest 0.005

Collimator: HMS: Large Sieve
 SHMS: Large Sieve

Beam position and angle on target:

3H07A	X	Y
<u>0.024</u> mm		<u>0.210</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.75</u> mm		<u>0.62</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>195.3400</u> A B-HALL	I-SET (from PSU) <u>495.3310</u> A B-HALL	HB
	<u>0.192</u> kg	<u>3.132</u> kg	
Q2	I-SET (from PSU) <u>155.2226</u> A B-HALL	I-SET (from PSU) <u>314.9550</u> A B-HALL	Q1
	<u>-0.274</u> kg	<u>-2.231</u> kg	
Q3	I-SET (from PSU) <u>75.8158</u> A B-HALL	I-SET (from PSU) <u>529.0220</u> A B-HALL	Q2
	<u>0.147</u> kg	<u>4.948</u> kg	
D	I-READ <u>458.7175</u> A B-NMR	I-SET (from PSU) <u>348.0920</u> A B-HALL	Q3
	<u>0.4106522</u> T	<u>3.399</u> kg	
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		<u>478.5910</u> A B-NMR	
		<u>-3.480</u> kg	

Run Number: <u>8474</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>11</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:08</u> Stop time (from RC): <u>01:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>335</u> k SHMS prescale <u>233</u> k COIN pretrig: <u>/</u> k
Comments:	<u>SHMS HODO 2Y11 + Illegal</u>				

Run Number: <u>8475</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>11</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:12</u> Stop time (from RC): <u>01:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>387</u> k SHMS prescale <u>1074</u> k COIN pretrig: <u>/</u> k
Comments:	<u>25 μA SHMS HODO 2Y11 + Illegal</u>				

Run Number: <u>8476</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>10</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:22</u> Stop time (from RC): <u>01:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1150</u> k SHMS prescale <u>1621</u> k COIN pretrig: <u>/</u> k
Comments:	<u>20 μA</u>				

Run Number: <u>8477</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>10</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:39</u> Stop time (from RC): <u>01:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1577</u> k SHMS prescale <u>1126</u> k COIN pretrig: <u>/</u> k
Comments:	<u>15 μA</u>				

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

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

Date: 19/06/27
yy mm dd

Initials: Cam

Continuation of Configuration:

Hydrogen Lumi

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

Run Number: <u>8478</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:55</u> Stop time (from RC): <u>02:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>709</u> k SHMS prescale <u>1018</u> k e- π n evts: Σ e- π n evts:	COIN pretrig: <input checked="" type="checkbox"/> k Data ok: <input checked="" type="checkbox"/> Junk: <input type="checkbox"/>
Comments: <u>10μA</u>						

Run Number: <u>8479</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>8</u> PS3: <u>7</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:11</u> Stop time (from RC): <u>02:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>948</u> k SHMS prescale <u>1373</u> k e- π n evts: Σ e- π n evts:	COIN pretrig: <input checked="" type="checkbox"/> k Data ok: <input type="checkbox"/> Junk: <input type="checkbox"/>
Comments: <u>5μA</u>						

Run Number: <u>8480</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>7</u> PS3: <u>6</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>2:31</u> Stop time (from RC): <u>2:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1085</u> k SHMS prescale <u>1585</u> k e- π n evts: Σ e- π n evts:	COIN pretrig: <input checked="" type="checkbox"/> k Data ok: <input checked="" type="checkbox"/> Junk: <input type="checkbox"/>
Comments: <u>3μA</u>						

Run Number: <u>8481</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>7</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:56</u> Stop time (from RC): <u>03:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1432</u> k SHMS prescale <u>1059</u> k e- π n evts: Σ e- π n evts:	COIN pretrig: <input type="checkbox"/> k Data ok: <input type="checkbox"/> Junk: <input type="checkbox"/>
Comments: <u>20μA</u>						

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale _____ k SHMS prescale _____ k e- π n evts: Σ e- π n evts:	COIN pretrig: <input type="checkbox"/> k Data ok: <input type="checkbox"/> Junk: <input type="checkbox"/>
Comments:						

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale _____ k SHMS prescale _____ k e- π n evts: Σ e- π n evts:	COIN pretrig: <input type="checkbox"/> k Data ok: <input type="checkbox"/> Junk: <input type="checkbox"/>
Comments:						

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

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

Date: 19/06/27
yy mm dd

Initials: Per

Use a separate sheet for each configuration.

Configuration Name: Heep Singles Prod #1

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam}: 2.758 GeV **I_{beam}:** 70 μ A

Raster: On Off
Size: 2x2 mm²

HMS
p: +/- 2.6170 θ (TV): 11.505
From GUI Nearest 0.005

SHMS
p: +/- 2.6170 θ (TV): 11.020
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Beam position and angle on target:

3H07A	X	Y
<u>0.04</u> mm		<u>-0.85</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>0.20</u> mm		<u>0.55</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>339.2105</u> A B-HALL <u>0.330</u> kG	I-SET (from PSU) <u>866.1340</u> A B-HALL <u>5.502</u> kG	HB
Q2	I-SET (from PSU) <u>269.6661</u> A B-HALL <u>-0.505</u> kG	I-SET (from PSU) <u>549.4910</u> A B-HALL <u>-3.859</u> kG	Q1
Q3	I-SET (from PSU) <u>131.3031</u> A B-HALL <u>0.261</u> kG	I-SET (from PSU) <u>922.9680</u> A B-HALL <u>8.621</u> kG	Q2
D	I-READ <u>797.4060</u> A B-NMR <u>0.7129357</u> T	I-SET (from PSU) <u>607.3040</u> A B-HALL <u>5.878</u> kG <u>5.878</u> kG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>834.9810</u> A B-NMR <u>-6.092</u> kG	D

Run Number: <u>8482</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:12</u> Stop time (from RC): <u>04:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1184</u> k pretrig:	SHMS prescale <u>1332</u> k pretrig:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	---	--	---

7 μ A

Run Number: <u>8483</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>04:34</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k	SHMS prescale pretrig: k	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	----------------------------	-----------------------------	--

40 μ A

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k	SHMS prescale pretrig: k	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
--------------------	--	--	---	--	----------------------------	-----------------------------	--

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k	SHMS prescale pretrig: k	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
--------------------	--	--	---	--	----------------------------	-----------------------------	--

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

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

Date: 19.06.27
yy mm dd

Initials Cam

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
Heep Singles Prod
#2

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam} : 2.758 GeV I_{beam} : 15/40 μA

Raster: On Off
Size: _____

HMS
 p : +/- 2.5730 $\theta(\text{TV})$: 13.005
From GUI Nearest 0.005

Beam position and angle on target:

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

SHMS
 p : +/- 2.5730 $\theta(\text{TV})$: 13.005
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Q1	I-SET (from PSU) B-HALL <u>335.1706A</u>	I-SET (from PSU) B-HALL <u>851.4800A</u>	HB
	<u>0.328</u> kG	<u>5.469</u> kG	
Q2	I-SET (from PSU) B-HALL <u>265.4526A</u>	I-SET (from PSU) B-HALL <u>540.2520A</u>	Q1
	<u>-0.499</u> kG	<u>-3.817</u> kG	
Q3	I-SET (from PSU) B-HALL <u>129.7450A</u>	I-SET (from PSU) B-HALL <u>907.4500A</u>	Q2
	<u>0.259</u> kG	<u>8.540</u> kG	
D	I-READ B-NMR <u>787.8000A</u>	I-SET (from PSU) B-HALL <u>597.0940A</u>	Q3
	<u>0.7043880T</u>	<u>5.796</u> kG	
	If momentum increased:		D
	<input type="checkbox"/> HMS cycled?	<u>820.9420A</u>	
	<input type="checkbox"/> SHMS cycled?	<u>-6.086</u> kG	

Run Number: <u>8484</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>05:41</u> Stop time (from RC): <u>06:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>587</u> k pretrig: $e-\pi n$ evts:	SHMS prescale <u>611</u> k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	--	--	---

A lot of this run had almost no current.
Change from 5:41 - 5:50

Run Number: <u>8485</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>06:13</u> Stop time (from RC): <u>06:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1335</u> k pretrig: $e-\pi n$ evts:	SHMS prescale <u>1389</u> k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	---	---	---

Run Number: <u>8486</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>07:01</u> Stop time (from RC): <u>07:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale k pretrig: $e-\pi n$ evts: <u>124145</u> <u>+159221</u>	SHMS prescale k pretrig: $\Sigma e-\pi n$ evts: <u>1154121</u>	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	--	--	---	---	--	---	---

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale k pretrig: $e-\pi n$ evts:	SHMS prescale k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
--------------------	--	--	---	--	---	---	--

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

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

Date: 19/06/27
yy mm dd

Initials: Cam

Use a separate sheet for each configuration.

Configuration Name: Heep Singles #3

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam} : 2.758 GeV I_{beam} : 35/40 μA

Raster: On Off
Size: 2x2mm

HMS
 p : +/- 2.501 $\theta(\text{TV})$: 15.226
From GUI Nearest 0.005

SHMS
 p : +/- 2.501 $\theta(\text{TV})$: 15.225
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

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>325.787</u> A B-HALL <u>0.316</u> 5.227 kG	I-SET (from PSU) <u>765.6000</u> A B-HALL <u>5.227</u> kG	HB
Q2	I-SET (from PSU) <u>258.9889</u> A B-HALL <u>-0.484</u> 3.697 kG	I-SET (from PSU) <u>525.1340</u> A B-HALL <u>-3.697</u> kG	Q1
Q3	I-SET (from PSU) <u>126.1262</u> A B-HALL <u>0.252</u> kG	I-SET (from PSU) <u>882.0570</u> A B-HALL <u>8.295</u> kG	Q2
D	I-READ <u>765.600</u> A B-NMR <u>0.6846919</u> T	I-SET (from PSU) <u>580.3850</u> A B-HALL <u>5.630</u> kG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		I-SET (from PSU) <u>797.900</u> A B-NMR <u>-5.846</u> kG	

Run Number: 8487

LH2 10cm PS1: -1 Start time (from RC): 07:36 Settings Verified? HMS prescale 1405 k SHMS prescale 1342 k COIN pretrig: k

LD2 10cm PS2: 9 Stop time (from RC): 08:07 HV OK? $e-\pi n$ evts: $\Sigma e-\pi n$ evts: Data ok

MT thick 10cm PS3: 9 50k OK? Junk

C 1.5% r.l. PS4: -1 **Comments:**

C 0.5% r.l. PS5: -1 _____

_____ PS6: -1

Run Number: 8488

LH2 10cm PS1: -1 Start time (from RC): 08:14 Settings Verified? HMS prescale 1370 k SHMS prescale 1309 k COIN pretrig: k

LD2 10cm PS2: 9 Stop time (from RC): 08:34 HV OK? $e-\pi n$ evts: $\Sigma e-\pi n$ evts: Data ok

MT thick 10cm PS3: 9 50k OK? Junk

C 1.5% r.l. PS4: -1 **Comments:**

C 0.5% r.l. PS5: -1 _____

_____ PS6: -1

Run Number: 8489

LH2 10cm PS1: -1 Start time (from RC): 08:44 Settings Verified? HMS prescale 262 k SHMS prescale 282 k COIN pretrig: k

LD2 10cm PS2: 9 Stop time (from RC): 08:56 HV OK? $e-\pi n$ evts: $\Sigma e-\pi n$ evts: Data ok

MT thick 10cm PS3: 9 50k OK? Junk

C 1.5% r.l. PS4: -1 **Comments:**

C 0.5% r.l. PS5: -1 _____

_____ PS6: -1

Run Number: _____

LH2 10cm PS1: _____ Start time (from RC): _____ Settings Verified? HMS prescale _____ k SHMS prescale _____ k COIN pretrig: k

LD2 10cm PS2: _____ Stop time (from RC): _____ HV OK? $e-\pi n$ evts: $\Sigma e-\pi n$ evts: Data ok

MT thick 10cm PS3: _____ 50k OK? Junk

C 1.5% r.l. PS4: _____ **Comments:**

C 0.5% r.l. PS5: _____ _____

_____ PS6: _____

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

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

Date: 19/06/27
yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

Configuration Name: _____
Heep Singles #4

Purpose:

- Production
 Test
 Optics
 Other: _____

E_{beam}: 27.58 GeV **I_{beam}:** 35 μ A

Raster: On Off
Size: _____

HMS
p: +/- 2.30 **θ (TV):** 21.20
From GUI Nearest 0.005

SHMS
p: +/- 2.30 **θ (TV):** 21.20
From GUI Nearest 0.005

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

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>300.43</u> A B-HALL <u>0.293</u> kG	I-SET (from PSU) <u>760.4</u> A B-HALL <u>4.862</u> kG	HB
Q2	I-SET (from PSU) <u>238.04</u> A B-HALL <u>-0.442</u> kG	I-SET (from PSU) <u>482.8</u> A B-HALL <u>-3.411</u> kG	Q1
Q3	I-SET (from PSU) <u>115.56</u> A B-HALL <u>0.231</u> kG	I-SET (from PSU) <u>811.68</u> A B-HALL <u>7.643</u> kG	Q2
D	I-READ <u>703.17</u> A B-NMR <u>0.62969</u> T	I-SET (from PSU) <u>533.72</u> A B-HALL <u>5.218</u> kG	Q3
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?		D
		I-SET (from PSU) <u>733.8</u> A B-NMR <u>-5.355</u> kG	D

Run Number: <u>8490</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:05</u> Stop time (from RC): <u>12:12</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u> </u> e-πn evts:	SHMS prescale pretrig: k <u> </u> Σ e-πn evts:	COIN pretrig: k <u> </u> <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	--	---	--	---	--	---

Beam off at beginning of run

Run Number: <u>8491</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:49</u> Stop time (from RC): <u>13:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>22.6</u> e-πn evts:	SHMS prescale pretrig: k <u>27.8</u> Σ e-πn evts:	COIN pretrig: k <u> </u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	--	---	--	---

Beam off for controlled access

Run Number: <u>8492</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>9</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u> </u> Stop time (from RC): <u> </u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u> </u> e-πn evts:	SHMS prescale pretrig: k <u> </u> Σ e-πn evts:	COIN pretrig: k <u> </u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	--	---	--	--

Run Number: <u> </u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u> </u> PS2: <u> </u> PS3: <u> </u> PS4: <u> </u> PS5: <u> </u> PS6: <u> </u>	Start time (from RC): <u> </u> Stop time (from RC): <u> </u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u> </u> e-πn evts:	SHMS prescale pretrig: k <u> </u> Σ e-πn evts:	COIN pretrig: k <u> </u> <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
---	--	--	---	--	---	--	--

p(e,e' π)n Run Sheet

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

Date: 19/06/27
yy mm dd

Initials: A.L.

Use a separate sheet for each configuration.

Configuration Name: _____
~~XXXXXXXXXXXX~~
 π^+ $Q^2 = 0.375$ Center SHMS

E_{beam}: 2.77 GeV **I_{beam}:** 37.11 μ A

HMS
p: +/- -0.448 **θ (TV):** 31.97
From GUI Nearest 0.005

SHMS
p: +/- 2.30 **θ (TV):** -5.70
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Purpose:
 Production
 Test
 Optics
 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>58.26</u> A	B-HALL	I-SET (from PSU) <u>760.65</u> A	HB
	<u>0.058</u> KG		<u>-4.864</u> KG	
Q2	I-SET (from PSU) <u>46.1696</u> A	B-HALL	I-SET (from PSU) <u>482.93</u> A	Q1
	<u>-0.054</u> KG		<u>3.440</u> KG	
Q3	I-SET (from PSU) <u>22.94</u> A	B-HALL	I-SET (from PSU) <u>811.168</u> A	Q2
	<u>0.041</u> KG		<u>-7.694</u> KG	
D	I-READ <u>136.00</u> A	B-NMR	I-SET (from PSU) <u>533.74</u> A	Q3
	<u>0.12255</u> T		<u>-5.237</u> KG	
	If momentum increased:		I-SET (from PSU) <u>733.839</u> A	D
	<input type="checkbox"/> HMS cycled?		<u>5.349</u> KG	
	<input type="checkbox"/> SHMS cycled?			

Run Number: <u>8493</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>19:39</u> Stop time (from RC): <u>19:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	---	--	--	---

Beam current is chaging between 20 μ A \rightarrow 40 μ A.
162 k events.

Run Number: <u>8494</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>19:58</u> Stop time (from RC): <u>20:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	---	--	--	---

2.3 M events. 37 μ A

Run Number: <u>8495</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>20:08</u> Stop time (from RC): <u>20:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	---	--	--	---

Beam current 37 μ A. Drift chamber fails.

Run Number: <u>8496</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>20:12</u> Stop time (from RC): <u>20:13</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	--	--	--	---

35 μ A.

p(e,e' π)n Run Sheet

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

Date: 19 / 06 / 27
yy mm dd

Initials: A.L

Use a separate sheet for each configuration.

Configuration Name: _____
production
Q² = 0.375, W = 2.2, Central SHMS

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam}: 2.77 GeV **I_{beam}:** 35 μ A

Raster: On Off
Size: 2x2

HMS
p: +/- -0.448 **θ (TV):** 31.97
From GUI Nearest 0.005

SHMS
p: +/- 2.30 **θ (TV):** -5.70
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Beam position and angle on target:

3H07A	X	Y
<u>-0.025</u> mm		<u>0.192</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.680</u> mm		<u>0.564</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>58.26</u> A B-HALL	I-SET (from PSU) <u>760.65</u> A B-HALL	HB
	<u>0.058</u> kG	<u>-4.864</u> kG	
Q2	I-SET (from PSU) <u>46.16</u> A B-HALL	I-SET (from PSU) <u>482.93</u> A B-HALL	Q1
	<u>+0.054</u> kG	<u>3.440</u> kG	
Q3	I-SET (from PSU) <u>22.94</u> A B-HALL	I-SET (from PSU) <u>811.168</u> A B-HALL	Q2
	<u>0.041</u> kG	<u>-7.694</u> kG	
D	I-READ <u>136.00</u> A B-NMR	I-SET (from PSU) <u>533.74</u> A B-HALL	Q3
	<u>0.1225</u> T	<u>-5.237</u> kG	
	If momentum increased:		
	<input checked="" type="checkbox"/> HMS cycled?	<u>733.839</u> A B-NMR	D
	<input checked="" type="checkbox"/> SHMS cycled?	<u>5.349</u> kG	

Run Number: <u>8497</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>12</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>20:33</u> Stop time (from RC): <u>20:57</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>28.5</u> k pretrig: _____ $e-\pi n$ evts: <u>968</u>	SHMS prescale: <u>155</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>968</u>	COIN pretrig: <u>635</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	---	---	--	---	--	--

HMS HV alarmed. \therefore run stopped.

Run Number: <u>8498</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>12</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>20:58</u> Stop time (from RC): _____	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>57</u> k pretrig: _____ $e-\pi n$ evts: <u>2033</u>	SHMS prescale: <u>316</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>968 2033 3001</u>	COIN pretrig: <u>1292</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	---	--	---	--	--	---

Run Number: <u>8499</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<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: <u>2033</u>	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	--	--	---	--	--	---	---

Run Number: <u>8500</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>22:04</u> Stop time (from RC): <u>23:00</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>73</u> k pretrig: _____ $e-\pi n$ evts: <u>2448</u>	SHMS prescale: <u>400</u> k pretrig: _____ $\Sigma e-\pi n$ evts: <u>2448 5449</u>	COIN pretrig: <u>1633</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	---	---	--	--	--	---

2 M events.

p(e,e' π)n Run Sheet

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

Date: 19/06/28
yy mm dd

Initials: Cam

Continuation of Configuration:

Production

$Q^2 = 0.375$ SHMS centre

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

Run Number: <u>8501</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>N/a</u> Stop time (from RC): <u>N/a</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k <u>0</u>	SHMS prescale pretrig: _____ k <u>5449</u>	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
----------------------------	--	--	---	--	---	---	---

Comments:

Last Shift No Record

Run Number: <u>8502</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>4:06</u> Stop time (from RC): <u>4:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>20</u> k <u>139</u>	SHMS prescale pretrig: <u>16</u> k <u>5588</u>	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---	---	--

Comments:

BPMs ~~are~~ are off from sticky note values when beam came back

Run Number: <u>8503</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>4:13</u> Stop time (from RC): <u>4:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>51</u> k <u>404</u>	SHMS prescale pretrig: <u>38</u> k <u>5992</u>	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---	---	---

Comments:

BPMs off from board/sticky values

Run Number: <u>8504</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>4:27</u> Stop time (from RC): <u>5:18</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>241</u> k <u>2011</u>	SHMS prescale pretrig: <u>165</u> k <u>8003</u>	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---	--	---

Comments:

Poor calibration on full replay results.

Run Number: <u>8505</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>5:18</u> Stop time (from RC): <u>6:02</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>216</u> k <u>1896</u>	SHMS prescale pretrig: <u>149</u> k <u>9899</u>	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---	--	---

Comments:

Run Number: <u>8506</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>6:03</u> Stop time (from RC): <u>6:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>147</u> k <u>1282</u>	SHMS prescale pretrig: <u>101</u> k <u>11181</u>	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---	---	---

Comments:

p(e,e' π)n Run Sheet

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

Date: 19/06/28
yy mm dd

Initials: Car

Continuation of Configuration:

Production

$Q^2 = 0.375$ SHMS Centre

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

Run Number: <u>8507</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>8</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u>	Start time (from RC): <u>6:52</u> Stop time (from RC): <u>6:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: 11381	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: <u>11381</u>	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>Open Trigger trial for Simona PS6</u> <u>220</u>							

Run Number: <u>8508</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>12</u> PS2: <u>7</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>07:09</u> Stop time (from RC): <u>07:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>73</u> k $e-\pi n$ evts: <u>N/a</u>	SHMS prescale pretrig: <u>111</u> k $\Sigma e-\pi n$ evts: <u>N/a</u>	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>35μA instead of 40μA \rightarrow 26 mins</u>							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

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

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

Date: 19/06/28
 yy mm dd

Initials: H.M.

Use a separate sheet for each configuration.

Configuration Name: _____
Production
 $Q^2 = 0.425$ SHMS Centre

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam} : 2.77 GeV I_{beam} : 35 μ A

Raster: On Off
 Size: _____

HMS
 p : +0.425 θ (TV): 35.18
From GUI Nearest 0.005

← probably 35.175

Beam position and angle on target:

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

SHMS
 p : +2.326 θ (TV): 5.70
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

	HMS	SHMS
Q1	I-SET (from PSU) <u>53.9</u> A B-HALL	I-SET (from PSU) <u>768.1</u> A 768.1
Q2	I-SET (from PSU) <u>45.9</u> A B-HALL	I-SET (from PSU) <u>488.7</u> A B-HALL
Q3	I-SET (from PSU) <u>22.3</u> A B-HALL	I-SET (from PSU) <u>820.4</u> A B-HALL
D	I-READ <u>127.7</u> A B-NMR	I-SET (from PSU) <u>540.3</u> A B-HALL
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>741.6</u> A B-NMR

Run Number: <u>8509</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>09:45</u> Stop time (from RC): <u>10:35</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>204</u> k pretrig: $e-\pi n$ evts: <u>2368</u>	SHMS prescale <u>182</u> k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: <u>2120</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	--	--	---

Run Number: <u>8510</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>10:58</u> Stop time (from RC): <u>11:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>127</u> k pretrig: $e-\pi n$ evts: <u>1459</u>	SHMS prescale <u>113</u> k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: <u>693</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	--	--	--

Run Number: <u>8511</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>11:41</u> Stop time (from RC): <u>12:39</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1590</u> k pretrig: $e-\pi n$ evts: <u>2573</u>	SHMS prescale <u>2816</u> k pretrig: $\Sigma e-\pi n$ evts: <u>6400</u>	COIN pretrig: <u>1191</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	--	--	---	---	---	---	--

Run Number: <u>8512</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>12:40</u> Stop time (from RC): <u>13:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>249</u> k pretrig: $e-\pi n$ evts: <u>2946</u>	SHMS prescale <u>442</u> k pretrig: $\Sigma e-\pi n$ evts:	COIN pretrig: <u>1356</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	--	--	---

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

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

Date: 19/06/28
yy mm dd

Initials: H.M.

Continuation of Configuration:

$$Q^2 = 0.425$$

SHMS centre

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

Run Number: 8513	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-3</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>13:44</u> Stop time (from RC): <u>14:29</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>1203</u> k $e-\pi n$ evts: <u>1059</u>	SHMS prescale pretrig: <u>6683</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>505</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	--	--

Comments:

At beginning ²⁻³ ~~trips~~ ~~during run~~ (beam off/on!!)

Run Number: 8514	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-3</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>14:31</u> Stop time (from RC): <u>15:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>1342</u> k $e-\pi n$ evts: <u>1183</u>	SHMS prescale pretrig: <u>7515</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>557</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	--	---

Comments:

Run Number: 8515	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-3</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>15:27</u> Stop time (from RC): <u>16:05</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>1027</u> k $e-\pi n$ evts: <u>1183</u>	SHMS prescale pretrig: <u>90</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>545</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	--	--

Comments:

Run Number: 8516	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-3</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>16:06</u> Stop time (from RC): <u>16:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	--	--

Comments:

4-2 M events / 3/4 trigger test run for Simone

Run Number: 8517	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>8</u> PS4: <u>-3</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>17:01</u> Stop time (from RC): <u>17:11</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
----------------------------	---	--	---	--	--	--	---

Comments:

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	---	--	---	--	--	--	--

Comments:

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

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

Date: 19.06.28
yy mm dd

Initials: JZ

Use a separate sheet for each configuration.

Configuration Name:
 $Q^2 = 0.425$ $Q_{SHMS} = 7.750$
 LEFT-1

E_{beam} : 2.75 GeV I_{beam} : _____ μA

HMS
 p : $+0.4210$ $\theta(TV)$: 35.175
From GUI Nearest 0.005

SHMS
 p : $+2.3260$ $\theta(TV)$: 7.750
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Purpose:
 Production
 Test
 Optics
 Other: _____

Raster: On Off
 Size: 2mm x 2mm

Beam position and angle on target:

3H07A	X	Y
<u>0.009</u>	mm	<u>0.204</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.805</u>	mm	<u>0.555</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>54.7275</u> A B-HALL	I-SET (from PSU) <u>769.2990</u> A B-HALL	HB
	<u>0.054</u> kG	<u>-4.886</u> kG	
Q2	I-SET (from PSU) <u>43.3707</u> A B-HALL	I-SET (from PSU) <u>488.3900</u> A B-HALL	Q1
	<u>-0.048</u> kG	<u>3.479</u> kG	
Q3	I-SET (from PSU) <u>21.5935</u> A B-HALL	I-SET (from PSU) <u>820.3370</u> A B-HALL	Q2
	<u>0.040</u> kG	<u>-7.776</u> kG	
D	I-READ <u>127.9660</u> A B-NMR	I-SET (from PSU) <u>539.7740</u> A B-HALL	Q3
	<u>0.11524</u> T	<u>-5.319</u> kG	
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>742.1340</u> A B-NMR	D
		<u>5.431</u> kG	

Run Number: 8518

LH2 10cm LD2 10cm MT thick 10cm C 1.5% r.l. C 0.5% r.l.

PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____

Start time (from RC): 22:23 Stop time (from RC): 22:25

Settings Verified? HV OK? 50k OK?

HMS prescale pretrig: _____ k $e-\pi n$ evts: _____

SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____

COIN pretrig: _____ k Data ok Junk

Comments: 0.3M events

Run Number: 8519

LH2 10cm LD2 10cm MT thick 10cm C 1.5% r.l. C 0.5% r.l.

PS1: 10 PS2: -1 PS3: 6 PS4: -1 PS5: 0 PS6: -1

Start time (from RC): 22:26 Stop time (from RC): 23:00

Settings Verified? HV OK? 50k OK?

HMS prescale pretrig: 131 k $e-\pi n$ evts: NIA

SHMS prescale pretrig: 150 k $\Sigma e-\pi n$ evts: NIA

COIN pretrig: 44 k Data ok Junk

Comments: _____

Run Number: 8520

LH2 10cm LD2 10cm MT thick 10cm C 1.5% r.l. C 0.5% r.l.

PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____

Start time (from RC): 23:06 Stop time (from RC): _____

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: _____

Run Number: 8521

LH2 10cm LD2 10cm MT thick 10cm C 1.5% r.l. C 0.5% r.l.

PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 9 PS6: -1

Start time (from RC): 23:10 Stop time (from RC): 23:17

Settings Verified? HV OK? 50k OK?

HMS prescale pretrig: 25 k $e-\pi n$ evts: 700

SHMS prescale pretrig: 38 k $\Sigma e-\pi n$ evts: 700

COIN pretrig: 191 k Data ok Junk

Comments: 250k events Short run at 60 + 50 μA to check tracking.

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

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

Date: 19/06/28
yy mm dd

Initials: GH
NH

Continuation of Configuration:

$Q^2 = 0.425$ Left 1

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

Run Number: 8522	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 23:18 Stop time (from RC): 23:59	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 93 k $e-\pi n$ evts: 2534	SHMS prescale pretrig: 135 k $\Sigma e-\pi n$ evts: 3234	COIN pretrig: 608 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---------------------	---	--	---	---	--	---	---

Comments: ~~that~~ run is 50 ~~micro~~ ^{MA} 1.01 M events.

Run Number: 8523	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 00:37 Stop time (from RC): 00:52	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 147 k $e-\pi n$ evts: 4370	SHMS prescale pretrig: 214 k $\Sigma e-\pi n$ evts: 7604	COIN pretrig: 959 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---------------------	---	--	---	---	---	---	---

Run Number: 8524	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 00:53 Stop time (from RC): 1:36	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 123 k $e-\pi n$ evts: 3624	SHMS prescale pretrig: 178 k $\Sigma e-\pi n$ evts: 11228	COIN pretrig: 803 k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
---------------------	---	--	--	---	---	--	--

Run Number: 8525	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 1:40 Stop time (from RC): 2:21	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 114 k $e-\pi n$ evts: 3285	SHMS prescale pretrig: 172 k $\Sigma e-\pi n$ evts: 14513	COIN pretrig: 895 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---------------------	---	--	---	---	---	--	---

Comments: up to 60nA

Run Number: 8526	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 2:21 Stop time (from RC): 3:07	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 106 k $e-\pi n$ evts: 3025	SHMS prescale pretrig: 160 k $\Sigma e-\pi n$ evts: 17538	COIN pretrig: 837 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---------------------	---	--	---	---	---	--	---

Comments: beam when went down for a bit durring run

Run Number: 8527	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 3:04 Stop time (from RC): 3:43	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 107 k $e-\pi n$ evts: 3051	SHMS prescale pretrig: 161 k $\Sigma e-\pi n$ evts: 20589	COIN pretrig: 835 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
---------------------	---	--	---	---	---	--	---

Comments: similar beam behavior as before

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

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

Date: 17/08/29
yy mm dd

Initials: NH

Continuation of Configuration:

$$Q^2 = 0.425$$

Left 1

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

Run Number: <u>8528</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>3:44</u> Stop time (from RC): <u>4:31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>173</u> k $e-\pi n$ evts: <u>3327</u>	SHMS prescale pretrig: <u>170</u> k $\Sigma e-\pi n$ evts: <u>23916</u>	COIN pretrig: <u>824</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---	--	--

Combined replay gives 23218 neutrons

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	--	--	--

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	--	--	--

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	--	--	--

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	--	--	--

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	--	--	--

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

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

Date: 19/06/29
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: _____
Q = 0.425 left-2
SHMS $\theta = 9.75^\circ$

E_{beam}: _____ GeV
I_{beam}: 60 μ A *varies*

HMS
p: +/- 0.4210 **θ (TV):** 9.740
From GUI Nearest 0.005

SHMS
p: +/- 2.3260 **θ (TV):** 9.740
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Purpose:
 Production
 Test
 Optics
 Other: _____

Raster: On Off
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
<u>-0.020</u>	mm	<u>0.202</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.723</u>	mm	<u>0.596</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>54.66</u> A B-HALL	I-SET (from PSU) <u>769.15</u> A B-HALL	HB
	<u>0.052</u> kG	<u>-4.866</u> kG	
Q2	I-SET (from PSU) <u>413.02</u> A B-HALL	I-SET (from PSU) <u>488.40</u> A B-HALL	Q1
	<u>-0.048</u> kG	<u>3.480</u> kG	
Q3	I-SET (from PSU) <u>21.08</u> A B-HALL	I-SET (from PSU) <u>820.72</u> A B-HALL	Q2
	<u>0.041</u> kG	<u>-7.770</u> kG	
D	I-READ <u>128.37</u> A B-NMR	I-SET (from PSU) <u>559.76</u> A B-HALL	Q3
	<u>0.11524</u> T	<u>-5.320</u> kG	
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		<u>742.24</u> A B-NMR	
		<u>5.431</u> kG	

Run Number: 8529

<input type="checkbox"/> LH2 10cm	PS1: <u>10</u>	Start time (from RC): <u>4:54</u> Stop time (from RC): <u>5:16</u>	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: <u>126</u> k	SHMS prescale pretrig: <u>94</u> k	COIN pretrig: <u>28</u> k
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>		<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts:	$\Sigma e-\pi n$ evts:	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: <u>6</u>		<input checked="" type="checkbox"/> 50k OK?	<input type="checkbox"/> Junk		
<input type="checkbox"/> C 1.5% r.l.	PS4: <u>-1</u>					
<input type="checkbox"/> C 0.5% r.l.	PS5: <u>0</u>					
<input checked="" type="checkbox"/> Dumping	PS6: <u>-1</u>					

Comments: 40 μ A

Run Number: 8530

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>13</u>	Start time (from RC): <u>5:41</u> Stop time (from RC): <u>6:16</u>	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: <u>122</u> k	SHMS prescale pretrig: <u>119</u> k	COIN pretrig: <u>742</u> k
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>		<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts:	$\Sigma e-\pi n$ evts:	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: <u>9</u>		<input type="checkbox"/> 50k OK?	<input type="checkbox"/> Junk		
<input type="checkbox"/> C 1.5% r.l.	PS4: <u>-1</u>					
<input type="checkbox"/> C 0.5% r.l.	PS5: <u>0</u>					
<input type="checkbox"/> _____	PS6: <u>-1</u>					

Comments: 70 μ A

Run Number: 8531

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>13</u>	Start time (from RC): <u>6:16</u> Stop time (from RC): <u>6:56</u>	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: <u>164</u> k	SHMS prescale pretrig: <u>160</u> k	COIN pretrig: <u>997</u> k
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>		<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts:	$\Sigma e-\pi n$ evts:	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: <u>9</u>		<input checked="" type="checkbox"/> 50k OK?	<input type="checkbox"/> Junk		
<input type="checkbox"/> C 1.5% r.l.	PS4: <u>-1</u>					
<input type="checkbox"/> C 0.5% r.l.	PS5: <u>0</u>					
<input type="checkbox"/> _____	PS6: <u>-1</u>					

Comments: 70 μ A

Run Number: 8532

<input checked="" type="checkbox"/> LH2 10cm	PS1: <u>13</u>	Start time (from RC): <u>6:57</u> Stop time (from RC): <u>7:37</u>	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: <u>116</u> k	SHMS prescale pretrig: <u>153</u> k	COIN pretrig: <u>449</u> k
<input type="checkbox"/> LD2 10cm	PS2: <u>-1</u>		<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts:	$\Sigma e-\pi n$ evts:	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: <u>9</u>		<input checked="" type="checkbox"/> 50k OK?	<input type="checkbox"/> Junk		
<input type="checkbox"/> C 1.5% r.l.	PS4: <u>-1</u>					
<input type="checkbox"/> C 0.5% r.l.	PS5: <u>0</u>					
<input type="checkbox"/> _____	PS6: <u>-1</u>					

Comments: 70 μ A

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

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

Date: 19/06/29
yy mm dd

Initials: NH

Continuation of Configuration:

$Q = 0.425$ left-2

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

Run Number: <u>8533</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>7:38</u> Stop time (from RC): <u>8:20</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>159</u> k SHMS prescale <u>155</u> k COIN pretrig: <u>974</u> k $e-\pi n$ evts: <u>3542</u> $\Sigma e-\pi n$ evts: <u>13641</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:	<u>3515</u>					

Run Number: <u>8534</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>8:28</u> Stop time (from RC): <u>9:30</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>241</u> k SHMS prescale <u>236</u> k COIN pretrig: <u>1472</u> k $e-\pi n$ evts: <u>5411</u> $\Sigma e-\pi n$ evts: <u>19052</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:						

Run Number: <u>8535</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>9:31</u> Stop time (from RC): <u>10:28</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>233</u> k SHMS prescale <u>228</u> k COIN pretrig: <u>1416</u> k $e-\pi n$ evts: <u>5172</u> $\Sigma e-\pi n$ evts: <u>24223</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:						

Run Number: <u>8536</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>10:30</u> Stop time (from RC): <u>11:00</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>126</u> k SHMS prescale <u>123</u> k COIN pretrig: <u>764</u> k $e-\pi n$ evts: <u>2836</u> $\Sigma e-\pi n$ evts: <u>27059</u>	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:						

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale _____ k SHMS prescale _____ k COIN pretrig: _____ k $e-\pi n$ evts: _____ $\Sigma e-\pi n$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:						

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale _____ k SHMS prescale _____ k COIN pretrig: _____ k $e-\pi n$ evts: _____ $\Sigma e-\pi n$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:						

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

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

Date: 19/06/29
yy mm dd

Initials: JZ

Use a separate sheet for each configuration.

Configuration Name: _____
 $R^2 = 0.375$ $W = 2.2$
 low ϵ SHMS $\theta_{TV} = 29.7^\circ$

$E_{beam} = 2.751$ GeV $I_{beam} = 70$ μA

HMS 31.965
 $p = \pm 0.4480$ $\theta(TV) = 31.980$
From GUI Nearest 0.005

SHMS 9.705
 $p = \pm 2.3000$ $\theta(TV) = 9.710$
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Purpose:
 Production
 Test
 Optics
 Other: _____

Raster: On Off
 Size: $2mm \times 2mm$

Beam position and angle on target:

3H07A	X	0.121	mm	Y	0.185	mm
Nomin:				Nomin:		
3H07C	X	0.121	mm	Y	0.185	mm
Nomin:				Nomin:		

HMS SHMS

Q1	I-SET (from PSU) B-HALL 136.0360 0.056	A	I-SET (from PSU) B-HALL 760.6540 -4.864	A	HB
Q2	I-SET (from PSU) B-HALL 46.1696 -0.053	A	I-SET (from PSU) B-HALL 482.9300 3.438	A	Q1
Q3	I-SET (from PSU) B-HALL 22.9497 0.042	A	I-SET (from PSU) B-HALL 811.1680 -7.695	A	Q2
D	I-READ B-NMR 136.0360 0.12264	A	I-SET (from PSU) B-HALL 533.7410 -5.237	A	Q3
	If momentum increased:		I-SET (from PSU) B-NMR 733.84 5.346	A	D

Run Number: 8537

<input checked="" type="checkbox"/> LH2 10cm	PS1: 13	Start time (from RC): 13:04	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: 288 k	SHMS prescale pretrig: 225 k	COIN pretrig: 1846 k
<input type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 14:02	<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts: 6431	$\Sigma e-\pi n$ evts: 6431	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: 9		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> C 1.5% r.l.	PS4: -1					
<input type="checkbox"/> C 0.5% r.l.	PS5: 8					
<input type="checkbox"/> _____	PS6: -1					

Comments: _____

Run Number: 8538

<input checked="" type="checkbox"/> LH2 10cm	PS1: 13	Start time (from RC): 14:03	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: 269 k	SHMS prescale pretrig: 209 k	COIN pretrig: 1708 k
<input type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 14:54	<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts: 6254	$\Sigma e-\pi n$ evts: 12685	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: 9		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> C 1.5% r.l.	PS4: 8					
<input type="checkbox"/> C 0.5% r.l.	PS5: -1					
<input type="checkbox"/> _____	PS6: -1					

Comments: _____

Run Number: 8539

<input checked="" type="checkbox"/> LH2 10cm	PS1: 13	Start time (from RC): 15:14	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: 280 k	SHMS prescale pretrig: 217 k	COIN pretrig: 1760 k
<input type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 16:19	<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts: 6316	$\Sigma e-\pi n$ evts: 18495	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: 9		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> C 1.5% r.l.	PS4: -1					
<input type="checkbox"/> C 0.5% r.l.	PS5: 8					
<input type="checkbox"/> _____	PS6: -1					

Comments: _____

Run Number: 8540

<input checked="" type="checkbox"/> LH2 10cm	PS1: 13	Start time (from RC): 16:20	<input checked="" type="checkbox"/> Settings Verified?	HMS prescale pretrig: 281 k	SHMS prescale pretrig: 218 k	COIN pretrig: 1760 k
<input type="checkbox"/> LD2 10cm	PS2: -1	Stop time (from RC): 17:20	<input checked="" type="checkbox"/> HV OK?	$e-\pi n$ evts: 6299	$\Sigma e-\pi n$ evts: 25294	<input checked="" type="checkbox"/> Data ok
<input type="checkbox"/> MT thick 10cm	PS3: 9		<input checked="" type="checkbox"/> 50k OK?			<input type="checkbox"/> Junk
<input type="checkbox"/> C 1.5% r.l.	PS4: -1					
<input type="checkbox"/> C 0.5% r.l.	PS5: 8					
<input type="checkbox"/> _____	PS6: -1					

Comments: _____

p(e,e'π)n Run Sheet

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

Date: 19/6/29
yy mm dd

Initials: SK

Continuation of Configuration:

$$Q^2 = 0.375$$

SHMS $\text{left} - 9.7^\circ$

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

Run Number: 8541	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>17:36</u> Stop time (from RC): <u>17:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
----------------------------	---	--	---	---	---------------------------------------	--	---

Comments:

Junk, ~~no~~ no beam from MCC, advised it'd be a few minutes

Run Number: 8542	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>13</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>18:30</u> Stop time (from RC): <u>18:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---------------------------------------	--	---

Comments:

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	---------------------------------------	--	--

Comments:

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	---------------------------------------	--	--

Comments:

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	---------------------------------------	--	--

Comments:

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	--	---	--	---------------------------------------	--	--

Comments:

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

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

Date: 19/6/29
yy mm dd

Initials: SK

Use a separate sheet for each configuration.

Configuration Name: _____
 $Q^2 = 0.375$
 SHMS Left 1

Purpose:
 Production
 Test
 Optics
 Other: _____

$E_{\text{beam}}: 2.758$ GeV $I_{\text{beam}}: 58$ ~~70~~ (40) μA

Raster: On Off
 Size: 2x2 mm

HMS
 $p: \frac{1}{2} - 0.4480$ $\theta(\text{TV}): 31.965$
From GUI Nearest 0.005

SHMS
 $p: +1 2.300$ $\theta(\text{TV}): 7.206$ 7.695
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Beam position and angle on target:

3H07A	X	Y
-0.100	mm	0.209
Nomin:		Nomin:
3H07C	X	Y
-0.887	mm	0.582
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) 58.2461 A B-HALL 0.057 kG	I-SET (from PSU) 766.6540 A B-HALL -4.8866 kG	HB
Q2	I-SET (from PSU) 46.1696 A B-HALL 0.054 kG	I-SET (from PSU) 482.9300 A B-HALL 3.438 kG	Q1
Q3	I-SET (from PSU) 22.9497 A B-HALL 0.040 kG	I-SET (from PSU) 811.168 A B-HALL -7.695 kG	Q2
D	I-READ 135.81 A B-NMR 0.1226376 T	I-SET (from PSU) 533.7410 A B-HALL -5.237 kG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		I-SET (from PSU) 733.8390 A B-NMR 5.349 kG	

Run Number: 8543	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 19:59 Stop time (from RC): 19:37	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k SHMS prescale pretrig: _____ k COIN pretrig: _____ k	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	---

Dummy target

Run Number: 8544	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 19:47 Stop time (from RC): 20:37	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 208 k SHMS prescale pretrig: 255 k COIN pretrig: 208 k	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	--	--

Run Number: 8545	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 20:38 Stop time (from RC): 21:18	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 207 k SHMS prescale pretrig: 256 k COIN pretrig: 2050 k	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	---	---	--

Run Number: 8546	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 21:19 Stop time (from RC): 22:27	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: 300 k SHMS prescale pretrig: 448 k COIN pretrig: 3614 k	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
----------------------------	---	--	---	--	---	--

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

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

Date: 19 / 6 / 29
yy mm dd

Initials: PM

Continuation of Configuration:

$$Q^2 = 0.375$$

SHMS Left - 1

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

Run Number: 8547	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 22:27 Stop time (from RC): 23:01	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: 166 k $e-\pi n$ evts: 4639	SHMS prescale pretrig: 207 k $\Sigma e-\pi n$ evts: 28192	COIN pretrig: 1668 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

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

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

Date: 19/06/29
yy mm dd

Initials: P4

Use a separate sheet for each configuration.

Configuration Name: 2.7 GeV Heep check

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam}: 2.758 GeV **I_{beam}:** 70 μ A

HMS
p: +/- 1.729 **θ (TV):** 37.1
From GUI Nearest 0.005

SHMS
p: +/- 1.729 **θ (TV):** 37.1
From GUI Nearest 0.005

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

Raster: On Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>0.146</u>	mm	<u>0.205</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.954</u>	mm	<u>0.577</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>225.1827</u> A B-HALL <u>0.219</u> kG	I-SET (from PSU) <u>571.15</u> A B-HALL <u>-3.589</u> kG	HB
Q2	I-SET (from PSU) <u>178.9613</u> A B-HALL <u>-1.322</u> kG	I-SET (from PSU) <u>362.88</u> A B-HALL <u>2.588</u> kG	Q1
Q3	I-SET (from PSU) <u>87.3252</u> A B-HALL <u>0.171</u> kG	I-SET (from PSU) <u>610.24</u> A B-HALL <u>-5.736</u> kG	Q2
D	I-READ <u>528.33</u> A B-NMR <u>0.47337</u> T	I-SET (from PSU) <u>401.16</u> A B-HALL <u>-3.913</u> kG <u>4.046</u> kG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?		D

Run Number: <u>8548</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>5</u> PS2: <u>-1</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>23:52</u> Stop time (from RC): <u>00:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>/</u>	SHMS prescale pretrig: k <u>/</u>	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	---	---	---	--	---	--

Run Number: <u>8549</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>5</u> PS2: <u>-1</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>00:10</u> Stop time (from RC): <u>00:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>752</u>	SHMS prescale pretrig: k <u>779</u>	COIN pretrig: k <u>478</u> <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	---	---	---	--	---	--

Run Number: <u>8551</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>5</u> PS2: <u>-1</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>00:38</u> Stop time (from RC): <u>00:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>/</u>	SHMS prescale pretrig: k <u>/</u>	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	--	---	---	---	--	---	---

Pumping

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>/</u>	SHMS prescale pretrig: k <u>/</u>	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
--------------------	--	--	---	--	--	---	---

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

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

Date: 19/06/30
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: _____
elastic singles
 $\theta = 21.2$

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam}: 2.788 GeV **I_{beam}:** 70 μ A

Raster: On Off
Size: 2x2

HMS
p: +/- -2.3000 θ (TV): 21.195
From GUI Nearest 0.005

SHMS
p: +/- -2.3000 θ (TV): 21.195
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Beam position and angle on target:

3H07A	X	Y
<u>0.094</u>	mm	<u>0.242</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.770</u>	mm	<u>0.607</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>300.43</u> A B-HALL <u>0.291</u> kG	I-SET (from PSU) <u>760.35</u> A B-HALL <u>4.861</u> kG	HB
Q2	I-SET (from PSU) <u>238.07</u> A B-HALL <u>0.441</u> kG	I-SET (from PSU) <u>482.8</u> A B-HALL <u>-3.412</u> kG	Q1
Q3	I-SET (from PSU) <u>115.53</u> A B-HALL <u>0.231</u> kG	I-SET (from PSU) <u>811.64</u> A B-HALL <u>7.642</u> kG	Q2
D	I-READ <u>703.32</u> A B-NMR <u>0.62961</u> T	I-SET (from PSU) <u>533.72</u> A B-HALL <u>5.215</u> kG	Q3
	<input checked="" type="checkbox"/> If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		I-SET (from PSU) <u>733.92</u> A B-NMR <u>-5.355</u> kG	

Run Number: <u>8552</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>5</u> PS2: <u>-1</u> PS3: <u>5</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>2:07</u> Stop time (from RC): <u>2:08</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k _____ e-πn evts:	SHMS prescale pretrig: k _____ Σ e-πn evts:	COIN pretrig: k _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	--	---	--	---

forgot prescalers

Run Number: <u>8553</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>7</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u>	Start time (from RC): <u>2:09</u> Stop time (from RC): <u>2:11</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k _____ e-πn evts:	SHMS prescale pretrig: k _____ Σ e-πn evts:	COIN pretrig: k _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	--	---	--	---

forgot to hit save on prescalers!

Run Number: <u>8554</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>7</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u>	Start time (from RC): <u>2:12</u> Stop time (from RC): <u>2:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k _____ e-πn evts:	SHMS prescale pretrig: k _____ Σ e-πn evts:	COIN pretrig: k _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	--	---	--	---

wrong trigger!!

Run Number: <u>8555</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>7</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u>	Start time (from RC): <u>2:33</u> Stop time (from RC): <u>2:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k _____ e-πn evts:	SHMS prescale pretrig: k _____ Σ e-πn evts:	COIN pretrig: k _____ <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
-----------------------------------	---	---	---	---	---	--	---

beam tripped then stayed down

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

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

Date: 19 / 06 / 30
yy mm dd

Initials: NH

Continuation of Configuration:

elastic singles
 $\theta = 21.2$

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

Run Number: <u>8556</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>7</u> PS4: <u>X</u> PS5: _____ PS6: _____	Start time (from RC): <u>2:42</u> Stop time (from RC): <u>3:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments:							

wrong trigger!

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

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

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

Date: 19/06/30
yy mm dd

Initials: NW

Use a separate sheet for each configuration.

Configuration Name: _____
elastic singles
 $\theta = 30.4$

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam}: 2.758 GeV **I_{beam}:** 70 μ A

Raster: On Off
Size: 2x2

HMS
p: +/- -1.9640 **θ (TV):** 30.395
From GUI Nearest 0.005

SHMS
p: +/- -1.9640 **θ (TV):** 30.405
From GUI Nearest 0.005

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

Beam position and angle on target:

3H07A	X	Y
<u>-0.033</u> mm		<u>0.170</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.924</u> mm		<u>0</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>256.48</u> A B-HALL <u>0.251</u> kG	I-SET (from PSU) <u>648.85</u> A B-HALL <u>4.132</u> kG	HB
Q2	I-SET (from PSU) <u>203.21</u> A B-HALL <u>-0.372</u> kG	I-SET (from PSU) <u>412.32</u> A B-HALL <u>-2.922</u> kG	Q1
Q3	I-SET (from PSU) <u>96.66</u> A B-HALL <u>0.195</u> kG	I-SET (from PSU) <u>693.12</u> A 455.68 A B-HALL <u>6.500</u> kG	Q2
D	I-READ <u>600.00</u> A B-NMR <u>0.53763</u> T	I-SET (from PSU) <u>455.72</u> A B-HALL <u>4.387</u> kG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?		D
		I-SET (from PSU) <u>626.84</u> A B-NMR <u>-4.544</u> kG	D

Run Number: <u>8557</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>3</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>3:20</u> Stop time (from RC): <u>3:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>1568</u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale <u>1125</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	---	---	--

Run Number: <u>8558</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>3</u> PS4: <u>-1</u> PS5: _____ PS6: _____	Start time (from RC): <u>3:42</u> Stop time (from RC): <u>4:02</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale <u>1497</u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale <u>1073</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	--	---	---	--

Run Number: <u>8559</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>3</u> PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>4:10</u> Stop time (from RC): <u>4:25</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>191</u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale <u>166</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------------	---	--	---	---	--	--	--

dummy 40 μ A

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC): 	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
--------------------	--	--	---	--	---	---	---

p(e,e' π)n Run Sheet

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

Date: 19/06/30
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
elastic singles
 $\theta = 33.64$

E_{beam}: 2.758 GeV **I_{beam}:** 70 μ A

HMS
p: +/- 1.8480 **θ (TV):** 33.640
From GUI Nearest 0.005

SHMS
p: +/- 1.8480 **θ (TV):** 33.640
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Purpose:
 Production
 Test
 Optics
 Other: _____

Raster: On Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>0.015</u> mm		<u>0.197</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.758</u> mm		<u>0.597</u> mm
Nomin:		Nomin:

241.31 Q1	I-SET (from PSU) <u>610.45</u> A	I-SET (from PSU) <u>610.50</u> A	HB
0.234	B-HALL <u>3.859</u> kG	B-HALL <u>3.859</u> kG	
191.1 Q2	I-SET (from PSU) <u>387.88</u> A	I-SET (from PSU) <u>387.92</u> A	Q1
-0.347	B-HALL <u>-2720</u> kG	B-HALL <u>-2720</u> kG	
92.80 Q3	I-SET (from PSU) <u>652.32</u> A	I-SET (from PSU) <u>652.32</u> A	Q2
0.183	B-HALL <u>6.092</u> kG	B-HALL <u>6.091</u> kG	
D	I-READ <u>564.30</u> A	I-SET (from PSU) <u>428.80</u> A	Q3
	B-NMR <u>0.50583</u> T	B-HALL <u>4.140</u> kG	
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		I-SET (from PSU) <u>589.68</u> A	
		B-NMR <u>-4.288</u> kG	

Run Number: <u>8560</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>3</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u>	Start time (from RC): <u>4:38</u> Stop time (from RC): <u>4:38</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
Comments:	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk						

Prescaler test

Run Number: <u>8561</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>0</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u>	Start time (from RC): <u>4:39</u> Stop time (from RC): <u>4:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>505</u> k	SHMS prescale pretrig: <u>867</u> k	COIN pretrig: _____ k
Comments:	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk						

Dummy 40uA

Run Number: <u>8562</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <u>5:00</u> Stop time (from RC): <u>5:00</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
Comments:	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk						

Coda Restart

Run Number: <u>8563</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>0</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u>	Start time (from RC): <u>5:03</u> Stop time (from RC): <u>5:03</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
Comments:	<input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk						

Prescale test

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

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

Date: ___/___/___
yy mm dd

Initials: _____

Continuation of Configuration:

elastic singles
 $\theta = 33.64^\circ$

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

Run Number: <i>8564</i>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: <i>-1</i> PS2: <i>3</i> PS3: <i>3</i> PS4: <i>X</i> PS5: <i>X</i> PS6: <i>X</i>	Start time (from RC): <i>5:05</i> Stop time (from RC): <i>5:27</i>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <i>800</i> k $e-\pi n$ evts: _____	SHMS prescale pretrig: <i>1127</i> k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <i>8565</i>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: <i>-1</i> PS2: <i>3</i> PS3: <i>3</i> PS4: <i>X</i> PS5: <i>X</i> PS6: <i>X</i>	Start time (from RC): <i>5:27</i> Stop time (from RC): <i>5:48</i>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <i>780</i> k $e-\pi n$ evts: _____	SHMS prescale pretrig: <i>1099</i> k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

p(e,e'π)n Run Sheet

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

Date: 19/08/30
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
Re-do elastic
Singles θ = 21.2

Purpose:
 Production
 Test
 Optics
 Other: _____

E_{beam}: 2.758 GeV **I_{beam}:** 70 μA

Raster: On Off
Size: 2x2

HMS
p: +/- 2.3000 **θ(TV):** 21.200
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	<u>0.223</u> mm	Y	<u>0.415</u> mm
Nomin:			Nomin:	
3H07C	X	<u>-0.264</u> mm	Y	<u>0.388</u> mm
Nomin:			Nomin:	

SHMS
p: +/- 2.3000 **θ(TV):** 21.200
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Q1	I-SET (from PSU) <u>300.43</u> A	A	I-SET (from PSU) <u>760.50</u> A	A	HB
	B-HALL <u>0.294</u> kG		B-HALL <u>4.860</u> kG		
Q2	I-SET (from PSU) <u>238.04</u> A	A	I-SET (from PSU) <u>482.88</u> A	A	Q1
	B-HALL <u>-0.443</u> kG		B-HALL <u>-3.411</u> kG		
Q3	I-SET (from PSU) <u>115.54</u> A	A	I-SET (from PSU) <u>811.60</u> A	A	Q2
	B-HALL <u>0.230</u> kG		B-HALL <u>7.642</u> kG		
D	I-READ <u>703.11</u> A	A	I-SET (from PSU) <u>533.72</u> A	A	Q3
	B-NMR <u>0.62963</u> T		B-HALL <u>5.215</u> kG		
	If momentum increased:		I-SET (from PSU) <u>733.88</u> A	A	D
	<input checked="" type="checkbox"/> HMS cycled?		B-NMR <u>-5.355</u> kG		
	<input checked="" type="checkbox"/> SHMS cycled?				

Run Number: <u>8366</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>3</u> PS3: <u>2</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>6:14</u> Stop time (from RC): <u>6:36</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale 200 k pretrig: _____ e-πn evts: _____	SHMS prescale 1099 k pretrig: _____ Σ e-πn evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>8367</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>3</u> PS3: <u>2</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u>	Start time (from RC): <u>6:37</u> Stop time (from RC): <u>6:52</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale <u>2312</u> k pretrig: _____ e-πn evts: _____	SHMS prescale <u>1490</u> k pretrig: _____ Σ e-πn evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale _____ k pretrig: _____ e-πn evts: _____	SHMS prescale _____ k pretrig: _____ Σ e-πn evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number:	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale _____ k pretrig: _____ e-πn evts: _____	SHMS prescale _____ k pretrig: _____ Σ e-πn evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							