

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

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

Use a separate sheet for each configuration.

Date: 22, 6, 18
yy mm dd

Initials: PM

HMS

SHMS

Q1	I-SET (from PSU) 892.0310 A B-HALL 1.181 kg	I-SET (from PSU) 1158.85 A B-HALL 7.328 kg	HB
Q2	I-SET (from PSU) 736.1090 A B-HALL -1.41533 kg	I-SET (from PSU) 733.424 A B-HALL 5.241 kg	Q1
Q3	I-SET (from PSU) 342.3360 A B-HALL 0.68909 kg	I-SET (from PSU) 1231.92 A B-HALL -11.616 kg	Q2
D	I-READ 241.75 A B-NMR 1.89084 kg	I-SET (from PSU) 810.59 A B-HALL -7.874 kg	Q3
If momentum increased:		I-SET (from PSU) 1114.48 A B-NMR 8.074 kg	D
☒ HMS cycled? ☐ SHMS cycled?			

Configuration Name: Q2 =
3.85, W=2.02 SHMS
High E X=0.55 Right

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other:

E_{beam}: 10.539 GeV

I_{beam}: 40 μ A

Raster: ☒ On ☐ Off

Size: 2 x 2

HMS

p: +/- -6.792 θ (TV): 13.31
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
233 mm	-0.04 mm	
Nomin:	Nomin:	
3H07C	X	Y
-0.05 mm	-0.29 mm	
Nomin:	Nomin:	

SHMS

p: +/- 3.493 θ (TV): 19.655
From GUI Nearest 0.005

Collimator:

HMS: Large Sieve ☐

SHMS: Large Sieve ☐

Run Number:

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1

Start time (from RC):

11:34

Stop time (from RC):

11:37

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS prescale
pretrig: 13 k

SHMS prescale
pretrig: 40 k

COIN pretrig: 1 k

$e-\pi n$ evts:

$\Sigma e-\pi n$ evts:

☐ Data ok

☐ Junk

Comments:

Fad mode 10

Run Number:

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1

Start time (from RC):

11:38

Stop time (from RC):

12:13

☐ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 40 k

SHMS prescale
pretrig: 10 k

COIN pretrig: 1 k

$e-\pi n$ evts:

$\Sigma e-\pi n$ evts:

☒ Data ok

☐ Junk

Comments:

Run Number:

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1

Start time (from RC):

12:13

Stop time (from RC):

13:11

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 40 k

SHMS prescale
pretrig: 10 k

COIN pretrig: 1 k

$e-\pi n$ evts:

$\Sigma e-\pi n$ evts:

☒ Data ok

☐ Junk

Comments:

Run Number:

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1

Start time (from RC):

13:13

Stop time (from RC):

14:23

☐ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 40 k

SHMS prescale
pretrig: 10 k

COIN pretrig: 1 k

$e-\pi n$ evts:

$\Sigma e-\pi n$ evts:

☒ Data ok

☐ Junk

Comments:

p(e,e' π)n Run Sheet

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

Date: 22/6/18
yy mm dd

Initials: PM

Continuation of Configuration:

$Q^2 = 3.85$ $W = 2.02$
 $X = 20.55$, Night SHMS Right

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

Run Number: 14999	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: -1	Start time (from RC): 14:24 Stop time (from RC): 15:24	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 15977	SHMS prescale pretrig: 10 k $\Sigma e-\pi n$ evts: 55358	COIN pretrig: 10 k ☒ Data ok ☐ Junk
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Comments:							
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Run Number: 15888	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: -1	Start time (from RC): 15:25 Stop time (from RC): 16:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 16209	SHMS prescale pretrig: 10 k $\Sigma e-\pi n$ evts: 71559	COIN pretrig: 1 k ☒ Data ok ☐ Junk
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Comments:							
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Run Number: 15001	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: -1	Start time (from RC): 16:29 Stop time (from RC): 17:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 13913	SHMS prescale pretrig: 10 k $\Sigma e-\pi n$ evts: 85472	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments:							
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Run Number: 15002	☐ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: -1	Start time (from RC): 17:21 Stop time (from RC): 17:40	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: 295	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: 295	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments: Dummy run							
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Run Number:	☐ 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): _____ 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
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Comments:							
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Run Number:	☐ 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): _____ 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
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Comments:							
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$p(e, e'\pi)n$ Run Sheet

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

Use a separate sheet for each configuration.

Date: 22/6/18
yy mm dd

Initials: Bh

HMS

SHMS

Q1	I-SET (from PSU) B-HALL 891.5 A 1.17990 kg	I-SET (from PSU) B-HALL 158.55 A -7.329 kg	HB
	I-SET (from PSU) B-HALL 736.3 A -1.91603 kg	I-SET (from PSU) B-HALL 733.29 A 5.291 kg	
	I-SET (from PSU) B-HALL 342.0 A 0.68983 kg -7.873 kg	I-SET (from PSU) B-HALL 1232.28 A -11.619 kg	
Q2	I-SET (from PSU) B-HALL 2407.7 A 1.89082 kg	I-SET (from PSU) B-HALL 810.49 A -7.871 kg	Q1
Q3	I-READ B-NMR 2407.7 A 1.89082 kg	I-SET (from PSU) B-HALL 810.49 A -7.871 kg	Q2
D	If momentum increased: ☒ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) B-NMR 1149.48 A 8.074 kg	Q3

Configuration Name:
 $Q=3.85$ $W=2.02$
 $X=0.55$, High E , STIMB Lente

E_{beam}: 10.542 GeV **I_{beam}:** 40 μ A

Purpose:
☒ Production
☐ Test
☐ Optics
☐ Other: _____

Raster: ☒ On ☐ Off
Size: 2x2

HMS
p: ± 6.7920 θ (TV): 13.310
From GUI Nearest 0.005

SHMS
p: ± 3.4930 θ (TV): 21.650
From GUI Nearest 0.005

Collimator: HMS: Large Sieve ☒ SHMS: Large Sieve ☒

Beam position and angle on target:

3H07A X -0.3 Y -0.3
mm mm
Nomin: Nomin:
3H07C X -0.7 Y -0.5
mm mm
Nomin: Nomin:

Run Number: <u>15003</u>	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>18:04</u> Stop time (from RC): <u>18:07</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>6</u> k $e-\pi n$ evts: <u>312</u>	SHMS prescale pretrig: <u>3</u> k $\Sigma e-\pi n$ evts: <u>312</u>	COIN pretrig: <u>7</u> k ☒ Data ok ☐ Junk
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Comments: changed SHMS angle
Failed mode 10 run

Run Number: <u>15004</u>	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>18:09</u> Stop time (from RC): <u>19:03</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>208</u> k $e-\pi n$ evts: <u>12165</u>	SHMS prescale pretrig: <u>101</u> k $\Sigma e-\pi n$ evts: <u>12165</u>	COIN pretrig: <u>222</u> k ☒ Data ok ☐ Junk
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Comments: Not
13576 13574

Run Number: <u>15005</u>	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>19:09</u> Stop time (from RC): <u>19:07</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>487</u> k $e-\pi n$ evts: <u>487</u>	SHMS prescale pretrig: <u>487</u> k $\Sigma e-\pi n$ evts: <u>487</u>	COIN pretrig: <u>487</u> k ☒ Data ok ☐ Junk
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Comments: Failed mode 10 run

Run Number: <u>15006</u>	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>19:07</u> Stop time (from RC): <u>19:08</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: <u>4</u> k $e-\pi n$ evts: <u>212</u>	SHMS prescale pretrig: <u>2</u> k $\Sigma e-\pi n$ evts: <u>212</u>	COIN pretrig: <u>4</u> k ☐ Data ok ☒ Junk
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Comments: Junk

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

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

Date: 22/6/18
yy mm dd

Initials: Bh

Continuation of Configuration:

$\theta = 3.85$ $W = 2.02$

$X = 0.55$; high E, SHMS centre.

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

Run Number: 15007	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 8 PS6: -1	Start time (from RC): 19:09 Stop time (from RC): 20:07	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 183 k $e-\pi n$ evts: 10679	SHMS prescale pretrig: 89 k $\Sigma e-\pi n$ evts: 22849	COIN pretrig: 200 k ☒ Data ok ☐ Junk
Comments: 11837 25413							

Run Number: 15008	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 8 PS6: -1	Start time (from RC): 20:08 Stop time (from RC): 21:08	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 192 k $e-\pi n$ evts: 12322	SHMS prescale pretrig: 93 k $\Sigma e-\pi n$ evts: 34166	COIN pretrig: 210 k ☒ Data ok ☐ Junk
Comments: 12587 38000							

Run Number: 15009	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 8 PS6: -1	Start time (from RC): 21:08 Stop time (from RC): 22:24	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 37 k $e-\pi n$ evts: 6276	SHMS prescale pretrig: 18 k $\Sigma e-\pi n$ evts: 36342	COIN pretrig: 76 k ☒ Data ok ☒ Junk
Comments: Beam off most of time 2405 40405							

Run Number: 15010	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 8 PS6: -1	Start time (from RC): 23:40 Stop time (from RC): 00:44	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 228 k $e-\pi n$ evts: 14815	SHMS prescale pretrig: 111 k $\Sigma e-\pi n$ evts: 55220	COIN pretrig: 248 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 15011	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 8 PS6: -1	Start time (from RC): 00:44:52 Stop time (from RC): 01:46:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 315 k $e-\pi n$ evts: 20521	SHMS prescale pretrig: 153 k $\Sigma e-\pi n$ evts: 75741	COIN pretrig: 326 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 15012	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 8 PS6: -1	Start time (from RC): 01:47:31 Stop time (from RC): 02:47:12	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 297 k $e-\pi n$ evts: 19354	SHMS prescale pretrig: 144 k $\Sigma e-\pi n$ evts: 95015	COIN pretrig: 309 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 22 06 19
yy mm dd

Initials: *pm*

Continuation of Configuration:

$Q^2 = 3.85$, $W = 2.02$, $x = 0.55$

High e ISMS Center

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

Run Number: 15013	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: -1	Start time (from RC): 02:44:44 Stop time (from RC): 03:35	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 189 k $e-\pi n$ evts: 12436	SHMS prescale pretrig: 92 k $\Sigma e-\pi n$ evts: 107531	COIN pretrig: 22 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 15014	☒ 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): _____ 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: 15015	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: 9 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 03:37:49 Stop time (from RC): 03:47:17	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: 309	SHMS prescale pretrig: 22 k $\Sigma e-\pi n$ evts: 110540	COIN pretrig: 48 k ☒ Data ok ☐ Junk
Comments: 3/4 Run Test - Short							

Run Number: 15016	☒ LH2 10cm ☐ LD2 10cm ☒ MT thick 10cm ☐ C 1.5% r.l. ☒ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: 8 PS4: -1 PS5: -1 PS6: 0	Start time (from RC): 03:56:51 Stop time (from RC): 04:24:05	☐ 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: 15017	☐ LH2 10cm ☐ LD2 10cm ☒ MT thick 10cm ☐ C 1.5% r.l. ☒ C 0.5% r.l.	PS1: 10 PS2: -1 PS3: -1 PS4: 8 PS5: 0 PS6: -1	Start time (from RC): 05:29:52 Stop time (from RC): 06:00:14	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 47 k $e-\pi n$ evts: 498	SHMS prescale pretrig: 30 k $\Sigma e-\pi n$ evts: _____	COIN pretrig: 43 k ☒ Data ok ☐ Junk
Comments: dummy							

Run Number:	☐ 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): _____ 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:							

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

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

Use a separate sheet for each configuration.

Date: 22, 06, 19
yy mm dd

Initials: *Jm*

HMS

SHMS

Configuration Name:

$Q^2 = 3.85$, $W = 2.02$, $x = 0.54$
High e , SHMS Left

Purpose:

- ☒ Production
☐ Test
☐ Optics
☐ Other: _____

E_{beam} : 10.539 GeV

I_{beam} : 40 μA

Raster: ☒ On ☐ Off
Size: 2x2

HMS

p : +6.7920 $\theta(\text{TV})$: 13.310
From GUI Nearest 0.005

SHMS

p : +3.4930 $\theta(\text{TV})$: 23.6450
From GUI Nearest 0.005

Collimator:

HMS: Large ☒ Sieve ☐

SHMS: Large ☒ Sieve ☐

Beam position and angle on target:

3H07A	X	Y
-0.1 mm	-0.3 mm	
Nomin:	Nomin:	
3H07C	X	Y
-0.7 mm	-0.5 mm	
Nomin:	Nomin:	

Q1	I-SET (from PSU) 892.031 A B-HALL 1.18280 kg	I-SET (from PSU) 1158.85 A B-HALL -7.321 kg	HB
Q2	I-SET (from PSU) 736.109 A B-HALL -1.41706 kg	I-SET (from PSU) 733.424 A B-HALL 5.243 kg	Q1
Q3	I-SET (from PSU) 342.336 A B-HALL 0.69105 kg	I-SET (from PSU) 1231.92 A B-HALL -11.615 kg	Q2
D	I-READ 2409.54 A B-NMR 1.89083 kg	I-SET (from PSU) 810.59 A B-HALL -7.869 kg	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) 1114.48 A B-NMR 8.074 kg	D

Run Number:

15019

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1

Start time (from RC):

06:23:46

Stop time (from RC):

6:44

- ☒ 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:

Dummy tot

Bad Beam... <40k

Run Number:

15020

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1

Start time (from RC):

20:53

Stop time (from RC):

21:05

- ☐ Settings Verified?
☒ HV OK?
☒ 50k OK?

HMS prescale
pretrig: 9 k

$e-\pi n$ evts:

83

SHMS prescale
pretrig: 4 k

$\Sigma e-\pi n$ evts:

—

COIN
pretrig: 11 k

- ☒ Data ok
☐ Junk

Comments:

Beam went off at ~21:06

23,587 evts

Run Number:

15021

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: -1

Start time (from RC):

21:08

Stop time (from RC):

21:17

- ☐ Settings Verified?
☒ HV OK?
☒ 50k OK?

HMS prescale
pretrig: 12 k

$e-\pi n$ evts:

110

SHMS prescale
pretrig: 5 k

$\Sigma e-\pi n$ evts:

193

COIN
pretrig: 10 k

- ☒ Data ok
☐ Junk

Comments:

27,119 evts

Run Number:

15022

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 4
PS6: 4

Start time (from RC):

21:23

Stop time (from RC):

22:24

- ☐ Settings Verified?
☒ HV OK?
☒ 50k OK?

HMS prescale
pretrig: 243 k

$e-\pi n$ evts:

13,114

SHMS prescale
pretrig: 63 k

$\Sigma e-\pi n$ evts:

—

COIN
pretrig: 223 k

- ☒ Data ok
☐ Junk

Comments:

X Car mode 10

526k evts

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

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

Date: 22/06/19
yy mm dd

Initials: BH

Continuation of Configuration:

$Q^2=3.85$ $W=2.02$

High E , SHMS Left (23.645°)

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

Run Number: <u>15023</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>8</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>22:25</u> Stop time (RC GUI): <u>23:24</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>218</u> k $e-\pi n$ evts: <u>11,928</u>	SHMS prescale pretrig: <u>225</u> k $\Sigma e-\pi n$ evts: <u>25,042</u>	COIN pretrig: <u>203</u> k ☒ Data ok ☐ Junk
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644k evts

Run Number: <u>15024</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>8</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>23:25</u> Stop time (RC GUI): <u>23:28</u>	☐ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts: ____	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts: ____	COIN pretrig: ____ k ☒ Data ok ☐ Junk
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Mode 10 Run.

Data rate ~7000 vs ~4000 regular

Run Number: <u>15025</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>8</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>8</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>23:29</u> Stop time (RC GUI): <u>00:36</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>369</u> k $e-\pi n$ evts: <u>19,982</u>	SHMS prescale pretrig: <u>380</u> k $\Sigma e-\pi n$ evts: <u>45,024</u>	COIN pretrig: <u>323</u> k ☒ Data ok ☐ Junk
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Run Number: <u>15026</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>8</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>00:37</u> Stop time (RC GUI): <u>01:12</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>183</u> k $e-\pi n$ evts: <u>9,936</u>	SHMS prescale pretrig: <u>188</u> k $\Sigma e-\pi n$ evts: <u>54,960</u>	COIN pretrig: <u>161</u> k ☒ Data ok ☐ Junk
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Run Number: <u>15027</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>8</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>01:20</u> Stop time (RC GUI): <u>01:22</u>	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts: ____	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts: ____	COIN pretrig: ____ k ☐ Data ok ☒ Junk
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WRONG PRESCALES

Run Number: <u>15028</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>01:22</u> Stop time (RC GUI): ____	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: ____ k $e-\pi n$ evts: ____	SHMS prescale pretrig: ____ k $\Sigma e-\pi n$ evts: ____	COIN pretrig: ____ k ☐ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Use a separate sheet for each configuration.

Date: 22 / 06 / 20
yy mm dd

Initials: PS.

Configuration Name: _____

$Q^2 = 3.85$ $W = 2.02$
High E, SHMS RIGHT-2

E_{beam}: 10.537 GeV

I_{beam}: 40-45 μ A

Purpose:

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

Raster: ☒ On ☐ Off

Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-0.09</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.68</u> mm		<u>-0.49</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>892.05</u> A B-HALL <u>1,18090</u> T	I-SET (from PSU) <u>1158.6</u> A B-HALL <u>-7,326</u> kG	HB
Q2	I-SET (from PSU) <u>736.10</u> A B-HALL <u>-1,41837</u> T	I-SET (from PSU) <u>733.2</u> A B-HALL <u>5.243</u> kG	Q1
Q3	I-SET (from PSU) <u>342.28</u> A B-HALL <u>0,68703</u> T	I-SET (from PSU) <u>1232.24</u> A B-HALL <u>-11,613</u> kG	Q2
D	I-READ <u>2409.57</u> A B-NMR <u>1,89082</u> T	I-SET (from PSU) <u>810.48</u> A B-HALL <u>-7,868</u> kG	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?		D
		I-SET (from PSU) <u>1114.44</u> A B-NMR <u>8,074</u> kG	

Run Number:

15027

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

PS1: 8
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: 1
Mode10: cer / fadc

Start time (RC GUI):

01:20

Stop time (RC GUI):

01:22

- ☒ Settings Verified?
☒ HV OK?
☐ 50k OK?

HMS prescale
pretrig: k

e- π n evts:

SHMS prescale
pretrig: k

Σ e- π n evts:

COIN
pretrig: k

☐ Data ok

☒ Junk

Comments:

WRONG PRESCALES

Run Number:

15028

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: 1
Mode10: cer / fadc

Start time (RC GUI):

01:22

Stop time (RC GUI):

02:22

- ☒ Settings Verified?
☒ HV OK?
☒ 50k OK?

HMS prescale
pretrig: k

e- π n evts:

19979

SHMS prescale
pretrig: k

Σ e- π n evts:

19979

COIN
pretrig: k

☒ Data ok

☐ Junk

Comments:

Run Number:

15029

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: 1
Mode10: cer / fadc

Start time (RC GUI):

02:22

Stop time (RC GUI):

03:00

- ☒ Settings Verified?
☒ HV OK?
☐ 50k OK?

HMS prescale
pretrig: k

e- π n evts:

SHMS prescale
pretrig: k

Σ e- π n evts:

COIN
pretrig: k

☒ Data ok

☒ Junk

Comments:

FADC MODE 10 - File should still be OK, just lag.
FORGOT THAT IT MUST BE JUST 2 MINS!!

Run Number:

15030

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

PS1: 10
PS2: -1
PS3: -1
PS4: 8
PS5: 0
PS6: 1
Mode10: cer / fadc

Start time (RC GUI):

03:00

Stop time (RC GUI):

03:02

- ☒ Settings Verified?
☒ HV OK?
☐ 50k OK?

HMS prescale
pretrig: k

e- π n evts:

SHMS prescale
pretrig: k

Σ e- π n evts:

COIN
pretrig: k

☐ Data ok

☐ Junk

Comments:

FADC MODE 10

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

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

Date: 22/06/20
yy mm dd

Initials: P.S.

Continuation of Configuration:

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

Run Number: <u>15031</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>03:03</u> Stop time (RC GUI): <u>04:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>329</u> k $e-\pi n$ evts: <u>21489</u>	SHMS prescale pretrig: <u>526</u> k $\Sigma e-\pi n$ evts: <u>41468</u>	COIN pretrig: <u>514</u> k ☒ Data ok ☐ Junk
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Run Number: <u>15032</u>	☒ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>04:04</u> Stop time (RC GUI): <u>04:33</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>144</u> k $e-\pi n$ evts: <u>9445</u>	SHMS prescale pretrig: <u>231</u> k $\Sigma e-\pi n$ evts: <u>50913</u>	COIN pretrig: <u>228</u> k ☒ Data ok ☐ Junk
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Run Number: <u>15033</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>04:43</u> Stop time (RC GUI): <u>05:00</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>27</u> k $e-\pi n$ evts: <u>304</u>	SHMS prescale pretrig: <u>47</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>29</u> k ☒ Data ok ☐ Junk
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Run Number: <u>15034</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: <u>cer</u> / fadc	Start time (RC GUI): Stop time (RC GUI):	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts:	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k ☐ Data ok ☒ Junk
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WRONG SETTINGS

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