

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

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

Date: 22/08/09
yy mm dd

Initials: GH

Use a separate sheet for each configuration.

Configuration Name:

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

mid ϵ $x = 0.21$, stems
center

$E_{\text{beam}} = 8.468$ GeV

$I_{\text{beam}} =$ μA

Purpose:

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

Raster: ☒ On ☐ Off
Size:

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) 285.6500 A B-HALL 0.37740 T	I-SET (from PSU) 2110.0700 A B-HALL -13.401 kG	HB
Q2	I-SET (from PSU) 227.0610 A B-HALL -0.42206 T	I-SET (from PSU) 1317.9000 A B-HALL 9.387 kG	Q1
Q3	I-SET (from PSU) 110.3560 A B-HALL 0.21734 T	I-SET (from PSU) 2209.5500 A B-HALL -20.834 kG	Q2
D	I-READ 671.2440 A B-NMR 0.6003860 T	I-SET (from PSU) 1453.8600 A B-HALL -14.048 kG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) 1998.9000 A B-NMR 14.462 kG	D

Run Number:

16063

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: -9
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

17:34

Stop time (RC GUI):

17:51

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

HMS prescale
pretrig: 61 k

$e-\pi n$ evts:
1624

SHMS prescale
pretrig: 960 k

$\Sigma e-\pi n$ evts:
1624

COIN 527 k
pretrig:

- ☒ Data ok
☐ Junk

Comments:

$Q = 46.58$

Run Number:

16064

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

17:51

Stop time (RC GUI):

18:20

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

HMS prescale
pretrig: 118 k

$e-\pi n$ evts:
3013

SHMS prescale
pretrig: 186 k

$\Sigma e-\pi n$ evts:
4637

COIN 1035 k
pretrig:

- ☒ Data ok
☐ Junk

Comments:

$Q = 90.38$
 $\Sigma Q = 136.96$

Run Number:

16065

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

18:21

Stop time (RC GUI):

18:38

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

HMS prescale
pretrig: 6 k

$e-\pi n$ evts:
163

SHMS prescale
pretrig: 10 k

$\Sigma e-\pi n$ evts:
4800

COIN 66 k
pretrig:

- ☒ Data ok
☐ Junk

Comments:

Ended run, Beam OFF

$Q = 4.87$
 $\Sigma Q = 141.83$

Run Number:

16066

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

18:44

Stop time (RC GUI):

19:14

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

HMS prescale
pretrig: 101 k

$e-\pi n$ evts:
2543

SHMS prescale
pretrig: 160 k

$\Sigma e-\pi n$ evts:
7343

COIN 882 k
pretrig:

- ☒ Data ok
☐ Junk

Comments:

$Q = 77.67$
 $\Sigma Q = 219.50$

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

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

Date: 22/08/09
yy mm dd

Initials: H.M.

Continuation of Configuration:

$$Q^2 = 2.45 \text{ GeV}^2, W = 3.20$$

mid ϵ , $x=0.21$, SKMS center

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

Run Number: 16067	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 19:15 Stop time (RC GUI): 19:45	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS 127 k prescale pretrig: $e-\pi n$ evts: 3195	SHMS 201 k prescale pretrig: $\Sigma e-\pi n$ evts: 10538	COIN 1125 k pretrig: ☒ Data ok ☐ Junk
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$$Q = 97.51$$

$$\Sigma Q = 317.016$$

Run Number: 16068	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): 18:46 Stop time (RC GUI): 19:48	☒ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS _____ k prescale pretrig: $e-\pi n$ evts:	SHMS _____ k prescale pretrig: $\Sigma e-\pi n$ evts:	COIN _____ k pretrig: ☐ Data ok ☐ Junk
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Mode 10

Run Number: 16069	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: -1 PS5: -1 PS6: 0 Mode10: cer / fadc	Start time (RC GUI): 19:50 Stop time (RC GUI): 19:59	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS 9211 k prescale pretrig: $e-\pi n$ evts: 835	SHMS 57 k prescale pretrig: $\Sigma e-\pi n$ evts: 11373	COIN 315 k pretrig: ☒ Data ok ☐ Junk
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HMS 3/4

$$Q = 27.48$$

Run Number: 16070	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:01 Stop time (RC GUI): 20:30	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS 115 k prescale pretrig: $e-\pi n$ evts: 2939	SHMS 181 k prescale pretrig: $\Sigma e-\pi n$ evts: 14312	COIN 1011 k pretrig: ☒ Data ok ☐ Junk
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$$Q = 87.85$$

$$\Sigma Q = 432.35$$

Run Number: 16071	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 20:35 Stop time (RC GUI): 21:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS 131 k prescale pretrig: $e-\pi n$ evts: 3355	SHMS 207 k prescale pretrig: $\Sigma e-\pi n$ evts: 17667	COIN 1168 k pretrig: ☒ Data ok ☐ Junk
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$$Q = 100.111$$

$$\Sigma Q = 532.46$$

Run Number: 16072	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 9 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:01 Stop time (RC GUI): 21:31	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS 124 k prescale pretrig: $e-\pi n$ evts: 3144	SHMS 196 k prescale pretrig: $\Sigma e-\pi n$ evts: 20811	COIN 1099 k pretrig: ☒ Data ok ☐ Junk
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1.4111 evts

$$Q = 95.04$$

$$\Sigma Q = 627.5$$

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

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Date: ____/____/____
yy mm dd

Initials: ____

Continuation of Configuration:

$Q^2 = 2.45 \text{ GeV}^2$, $W = 3.20$
mid E , $x = 0.21$, SKMS center

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

Run Number: 16073	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 13 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:00 Stop time (RC GUI): 22:15	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 14 k $e-\pi n$ evts: 96	SHMS prescale pretrig: 13 k $\Sigma e-\pi n$ evts:	COIN pretrig: 27 k ☒ Data ok ☐ Junk
Comments:							
$Q = 32.236$							

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

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

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

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

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

p(e,e' π)n Run Sheet

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

Date: 22/08/09
yy mm dd

Initials: GH

Use a separate sheet for each configuration.

Configuration Name: _____

$Q^2 = 2.45$, $W = 3.20$, $x = 0.21$
mid-e $\Theta_{SHMS} = \text{LEFT}$

$E_{\text{beam}} = 8.49$ GeV

$I_{\text{beam}} = 89$ μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
-0.11 mm	-0.29 mm	
Nomin: -0.09	Nomin: -0.3	
3H07C	X	Y
-0.72 mm	-0.51 mm	
Nomin: -0.68	Nomin: -0.49	

HMS

SHMS

Q1	I-SET (from PSU) 285.6500 A B-HALL 0.37290 T	I-SET (from PSU) 2110.0700 A B-HALL -13.399 kG	HB
Q2	I-SET (from PSU) 227.0610 A B-HALL -0.4877 T	I-SET (from PSU) 1317.9000 A B-HALL 9.387 kG	Q1
Q3	I-SET (from PSU) 110.3560 A B-HALL 0.22061 T	I-SET (from PSU) 2209.5500 A B-HALL -20.835 kG	Q2
D	I-SET (from PSU) 671.2440 A B-NMR 0.6003760 T	I-SET (from PSU) 1453.8600 A B-HALL -14.049 kG	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) 1998.9100 A B-NMR 14.462 kG	D

HMS

p: +0.21930 $\theta(\text{TV})$: 20.905
From GUI Nearest 0.005

SHMS

p: -0.62650 $\theta(\text{TV})$: 8.930
From GUI Nearest 0.005

Collimator:

HMS: Large ☒
Sieve ☐

SHMS: Collim ☒
Sieve ☐

Run Number:

16074

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

PS1: 13
PS2: 1
PS3: 1
PS4: 8
PS5: 0
PS6: 1
Mode10: cer / fadc

Start time (RC GUI):

22:23

Stop time (RC GUI):

22:44

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

HMS prescale
pretrig: 20 k

$e-\pi n$ evts:
81

SHMS prescale
pretrig: 7 k

$\Sigma e-\pi n$ evts:
81

COIN pretrig: 24 k

- ☒ Data ok
☐ Junk

Comments:

$Q = 46.44$

Run Number:

16075

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

PS1: 12
PS2: 1
PS3: 1
PS4: 9
PS5: 0
PS6: 1
Mode10: cer / fadc

Start time (RC GUI):

22:49

Stop time (RC GUI):

23:07

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

HMS prescale
pretrig: 89 k

$e-\pi n$ evts:
1436

SHMS prescale
pretrig: 107 k

$\Sigma e-\pi n$ evts:
1436

COIN pretrig: 411 k

- ☒ Data ok
☐ Junk

Comments:

$Q = 67.97$

Run Number:

16076

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

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

Start time (RC GUI):

23:08

Stop time (RC GUI):

23:11

- ☒ 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:

Mode Test 100k evts

Run Number:

16077

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

PS1: 12
PS2: 11
PS3: 1
PS4: 1
PS5: 0
PS6: 0
Mode10: cer / fadc

Start time (RC GUI):

23:13

Stop time (RC GUI):

23:21

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

HMS prescale
pretrig: 13246 k

$e-\pi n$ evts:
815

SHMS prescale
pretrig: 63 k

$\Sigma e-\pi n$ evts:
2253

COIN pretrig: 239 k

- ☒ Data ok
☐ Junk

Comments:

HMS 3/4

$Q = 39.534$
 $\Sigma Q = 107.504$

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

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

Date: 22/08/08
yy mm dd

Initials: H.M.

Continuation of Configuration:

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

$x = 0.21$, mid E , stems Left

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

Run Number: 16078	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 23:23 Stop time (RC GUI): 24:00	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 178 k $e-\pi n$ evts: 2990	SHMS prescale pretrig: 214 k $\Sigma e-\pi n$ evts: 5241	COIN pretrig: 804 k ☒ Data ok ☐ Junk
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$Q = 135,848$
 $\Sigma Q = 243,352$

Run Number: 16079	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 3 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:01 Stop time (RC GUI): 00:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 141 k $e-\pi n$ evts: 2353	SHMS prescale pretrig: 169 k $\Sigma e-\pi n$ evts: 7594	☒ Data ok ☐ Junk
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$Q = 107,593$
 $\Sigma Q = 350,945$

Need 12K!

Run Number: 16080	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: 12 PS2: -1 PS3: -1 PS4: 9 PS5: 9 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 00:32 Stop time (RC GUI): 00:58	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 85 k $e-\pi n$ evts: 1441	SHMS prescale pretrig: 103 k $\Sigma e-\pi n$ evts: 9035	☒ Data ok ☐ Junk
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$Q = 64,909$
 $\Sigma Q = 415,854$

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

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

Date: 22/08/10
yy mm dd

Initials: Ins.

Use a separate sheet for each configuration.

Configuration Name:

$Q^2=2.45$, $W=3.2$, $x=0.21$
mid ϵ , SHMS right

E_{beam} : 8.49 GeV

I_{beam} : 30 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2 mm X 2 mm

Beam position and angle on target:

3H07A	X	Y
<u>-0.078</u>	mm	<u>-0.30</u> mm
Nomin:	<u>-0.09</u>	Nomin: <u>-0.3</u>
3H07C	X	Y
<u>-0.729</u>	mm	<u>-0.483</u> mm
Nomin:	<u>-0.68</u>	Nomin: <u>-0.49</u>

HMS

SHMS

Q1	I-SET (from PSU) <u>285.69</u>	A	I-SET (from PSU) <u>2109.85</u>	A	HB
	B-HALL <u>0.3718</u>	T	B-HALL <u>-13.392</u>	kG	
Q2	I-SET (from PSU) <u>227.06</u>	A	I-SET (from PSU) <u>1317.88</u>	A	Q1
	B-HALL <u>-0.41803</u>	T	B-HALL <u>9.390</u>	kG	
Q3	I-SET (from PSU) <u>110.34</u>	A	I-SET (from PSU) <u>2209.52</u>	A	Q2
	B-HALL <u>0.217</u>	T	B-HALL <u>-20.833</u>	kG	
D	I-READ <u>671.16</u>	A	I-SET (from PSU) <u>1453.76</u>	A	Q3
	B-NMR <u>0.6003750</u>	T	B-HALL <u>-14.096</u>	kG	<u>-14.03</u>
	If momentum increased:		I-SET (from PSU) <u>1999.00</u>	A	D
	☐ HMS cycled?		B-NMR <u>14.449</u>	kG	
	☐ SHMS cycled?				

Run Number:

16081

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

17:51

Stop time (RC GUI):

18:07

- ☒ 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:

10 μA for rates test for ~7min. Junk Junk

Run Number:

16082

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

20:41

Stop time (RC GUI):

20:54

- ☒ 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:

~6 μA for ~10 min, then beam off. <50k Junk Junk

Run Number:

16083

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

PS1: 13
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

21:35

Stop time (RC GUI):

21:46

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

HMS prescale
pretrig: 13 k

$e-\pi n$ evts: 359

SHMS prescale
pretrig: 38 k

$\Sigma e-\pi n$ evts: —

COIN
pretrig: 91 k

☒ Data ok

☐ Junk

Comments:

20 μA , 30 μA , 40 μA $Q=9.978\text{mc}$

Run Number:

16084

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

PS1: 14
PS2: -1
PS3: -1
PS4: 9
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

21:48

Stop time (RC GUI):

22:11

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

HMS prescale
pretrig: 64 k

$e-\pi n$ evts: 1568

SHMS prescale
pretrig: 101 k

$\Sigma e-\pi n$ evts: 1927

COIN
pretrig: 680 k

☒ Data ok

☐ Junk

Comments:

35 μA $Q=48.257\text{mc}$
 $\Sigma Q=58.235\text{mc}$

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

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

Date: 22/08/10
yy mm dd

Initials: Iu.S.

Continuation of Configuration:

$Q^2=2.45, W=3.2, x=0.21$

mid E, SHMS right

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

Run Number: 16085	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:12:14</u> Stop time (RC GUI): <u>22:15:54</u>	☒ Settings Verified? ☒ HV OK? ☐ 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 ☒ Data ok ☐ Junk
Comments: fade mode 10 35mA							

Run Number: 16086	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:16</u> Stop time (RC GUI): <u>22:29</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>29</u> k $e-\pi n$ evts: <u>661</u>	SHMS prescale pretrig: <u>46</u> k $\Sigma e-\pi n$ evts: <u>2588</u>	COIN pretrig: <u>303</u> k ☒ Data ok ☐ Junk
Comments: 35mA							
$Q = 22.044 \text{ mC}$ $\Sigma Q = 80.279 \text{ mC}$							

Run Number: 16087	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>22:30</u> Stop time (RC GUI): <u>23:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>65</u> k $e-\pi n$ evts: <u>1537</u>	SHMS prescale pretrig: <u>100</u> k $\Sigma e-\pi n$ evts: <u>4125</u>	COIN pretrig: <u>576</u> k ☒ Data ok ☐ Junk
Comments: 30mA							
$Q = 49.525 \text{ mC}$ $\Sigma Q = 129.804 \text{ mC}$							

Run Number: 16088	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>0</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:04</u> Stop time (RC GUI): <u>23:24</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>66</u> k $e-\pi n$ evts: <u>1082</u>	SHMS prescale pretrig: <u>381</u> k $\Sigma e-\pi n$ evts: <u>5207</u>	COIN pretrig: <u>11054</u> k ☒ Data ok ☐ Junk
Comments: 30mA HMS -3/4 trigger run							
$Q = 32.436 \text{ mC}$ $\Sigma Q = 162.24$							

Run Number: 16089	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:26</u> Stop time (RC GUI): <u>23:52</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>51</u> k $e-\pi n$ evts: <u>1262</u>	SHMS prescale pretrig: <u>77</u> k $\Sigma e-\pi n$ evts: <u>6469</u>	COIN pretrig: <u>445</u> k ☒ Data ok ☐ Junk
Comments: 30mA							
$Q = 38.416 \text{ mC}$ $\Sigma Q = 200.656$							

Run Number: 16090	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>9</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>23:52</u> Stop time (RC GUI): <u>00:33:28</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>77</u> k $e-\pi n$ evts: <u>1950</u>	SHMS prescale pretrig: <u>118</u> k $\Sigma e-\pi n$ evts: <u>8419</u>	COIN pretrig: <u>683</u> k ☒ Data ok ☐ Junk
Comments: 30mA							
$Q = 58.649 \text{ mC}$ $Q = 24.486 \text{ mC}$ $\Sigma Q = 259.305$							

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

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

Date: 22/08/11
yy mm dd

Initials: N. S.

Continuation of Configuration:

$Q^2=2.45$, $W=3.2$, $X=0.21$

mid Σ , SHMS right

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

Run Number: 16091	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>00:33:32</u> Stop time (RC GUI): <u>01:03:22</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>62</u> k $e-\pi n$ evts: <u>1612</u>	SHMS prescale pretrig: <u>94</u> k $\Sigma e-\pi n$ evts: <u>10031</u>	COIN pretrig: <u>546</u> k ☒ Data ok ☐ Junk
Comments: 30 MA							
$Q = 46.726$ mC $\Sigma Q = 306.031$							

Run Number: 16092	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>1:04:16</u> Stop time (RC GUI): <u>01:33:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>56</u> k $e-\pi n$ evts: <u>1410</u>	SHMS prescale pretrig: <u>85</u> k $\Sigma e-\pi n$ evts: <u>11441</u>	COIN pretrig: <u>494</u> k ☒ Data ok ☐ Junk
Comments: 30 MA							
$Q = 42.495$ mC $\Sigma Q = 348.526$							

Run Number: 16093	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>1:34:10</u> Stop time (RC GUI): <u>2:04:37</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>114</u> k $e-\pi n$ evts: <u>1482</u>	SHMS prescale pretrig: <u>87</u> k $\Sigma e-\pi n$ evts: <u>12923</u>	COIN pretrig: <u>500</u> k ☐ Data ok ☐ Junk
Comments: 30 MA							
$Q = 43.070$ mC $\Sigma Q = 391.596$							

Run Number: 16094	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>2:05:23</u> Stop time (RC GUI): <u>02:35:31</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>114</u> k $e-\pi n$ evts: <u>1422</u>	SHMS prescale pretrig: <u>87</u> k $\Sigma e-\pi n$ evts: <u>14345</u>	COIN pretrig: <u>509</u> k ☒ Data ok ☐ Junk
Comments: 30 MA							
$Q = 43.329$ mC $\Sigma Q = 434.925$							

Run Number: 16095	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>14</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>02:35:59</u> Stop time (RC GUI): <u>03:03:49</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>118</u> k $e-\pi n$ evts: <u>1486</u>	SHMS prescale pretrig: <u>90</u> k $\Sigma e-\pi n$ evts: <u>15831</u>	COIN pretrig: <u>521</u> k ☒ Data ok ☐ Junk
Comments: 30 μA							
$Q = 44.644$ mC $\Sigma Q = 479.569$							

Run Number: 16096	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>3:12:29</u> Stop time (RC GUI): <u>3:18:00</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
Comments: 40 MA							
Bad prescales							

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

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

Date: 22/08/11
yy mm dd

Initials: N.S.

Continuation of Configuration:

$Q^2 = 2.45$, $w = 3.2$, $x = 0.21$

mid ϵ , SHMS right

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

Run Number: <u>16097</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>12</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>3</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:14:00</u> Stop time (RC GUI): <u>3:35:20</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>77</u> k $e-\pi n$ evts: <u>110</u>	SHMS prescale pretrig: <u>88</u> k $\Sigma e-\pi n$ evts: <u>110</u>	COIN pretrig: <u>68</u> k ☒ Data ok ☐ Junk
Comments: <u>40 MA</u>							

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
Comments:							

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
Comments:							

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
Comments:							

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
Comments:							

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
Comments:							