

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

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

Use a separate sheet for each configuration.

Date: 21 / 9 / 7
yy mm dd

Initials: SK

Configuration Name: _____

Beam Checkout
(Detocused)

E_{beam}: 9.158 GeV

I_{beam}: $\times$ μ A

HMS

p: $\#$ -5.89 θ (TV): 12.565
From GUI Nearest 0.005

SHMS

p: $\#$ -5.27 θ (TV): 7.445
From GUI Nearest 0.005

Collimator:

HMS: Large ☒ Sieve ☐

SHMS: Large ☒ Sieve ☐

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
-0.8 mm	3.8 mm	
Nomin:	Nomin:	
3H07C	X	Y
-0.8 mm	3.8 mm	
Nomin:	Nomin:	

HMS

SHMS

Q1	I-SET (from PSU) 768.520 A B-HALL 1.02710 kg	I-SET (from PSU) 1762.7 A B-HALL 11.182 kg	HB
Q2	I-SET (from PSU) 742.440 A B-HALL -1.42104 kg	I-SET (from PSU) 1106.94 A B-HALL -7.800 kg	Q1
Q3	I-SET (from PSU) 360.14 A B-HALL 0.60721 kg	I-SET (from PSU) 2230.36 A B-HALL 20.934 kg	Q2
D	I-READ 19167 A B-NMR 1.625250 T	I-SET (from PSU) 1222.96 A B-HALL 11.797 kg	Q3
	If momentum increased: ☒ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) 1681.45 A B-NMR -12.259 kg	D

Run Number:

11799

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

PS1: 9
PS2: -1
PS3: 4
PS4: -1
PS5: -1
PS6: -1
Mode10: cer / 100g

Start time (from RC):

11:00

Stop time (from RC):

11:05

- ☒ 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

Run Number:

11800

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

PS1: 10
PS2: -1
PS3: 5
PS4: -1
PS5: -1
PS6: -1
Mode10: cer / 100g

Start time (from RC):

11:06

Stop time (from RC):

11:13

- ☒ 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

Run Number:

11801

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

PS1: 10
PS2: 3
PS3: -1
PS4: -1
PS5: -1
PS6: -1
Mode10: cer / 100g

Start time (from RC):

11:30

Stop time (from RC):

11:45

- ☒ 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

Run Number:

11802

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

PS1: 10
PS2: -1
PS3: 5
PS4: -1
PS5: -1
PS6: -1
Mode10: cer / 100g

Start time (from RC):

12:03

Stop time (from RC):

12:12

- ☒ 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

May be low # events

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

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Use a separate sheet for each configuration.

Date: 21/09/07
yy mm dd

Initials: GH

Configuration Name: _____

HMS Sieve Check

E_{beam} : 9.2 GeV

I_{beam} : 20-30 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
-0.5 mm		0.0 mm
Nomin:		Nomin:
3H07C	X	Y
-0.9 mm		-0.3 mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) 486.66 A B-HALL 0.65060 kg	I-SET (from PSU) 1369.78 A B-HALL -8.706 kg	HB
Q2	I-SET (from PSU) 387.219 A B-HALL -0.74554 kg	I-SET (from PSU) 865.075 A B-HALL 6.167 kg	Q1
Q3	I-SET (from PSU) 190.383 A B-HALL 0.37982 kg	I-SET (from PSU) 1453.050 A B-HALL -13.737 kg	Q2
D	I-READ 1146.70 A B-NMR 1.0233300 T	I-SET (from PSU) 956.092 A B-HALL -9.281 kg	Q3
	If momentum increased: ☐ HMS cycled? ☐ SHMS cycled?	I-SET (from PSU) 1314.53 A B-NMR 9.572 kg	D

Run Number:

11824

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

PS1: _____
PS2: _____
PS3: _____
PS4: 0
PS5: _____
PS6: _____
Mode10: cer / fadc

Start time (from RC):

~1:26 am

Stop time (from RC):

~2:24 am

- ☐ 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:

tuning beam & ion chamber calibrations

Run Number:

11825

- ☐ LH2 10cm
☐ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics 28 cm
☐ _____

PS1: _____
PS2: _____
PS3: _____
PS4: 0
PS5: _____
PS6: _____
Mode10: cer / fadc

Start time (from RC):

2:24

Stop time (from RC):

4:22

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

HMS prescale
pretrig: k
 $e-\pi n$ evts:
105K

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

COIN pretrig: k
☐ Data ok
☐ Junk

Comments:

GOOD SIEVE DATA OPTICS 1

Run Number:

11826

- ☐ LH2 10cm
☐ LD2 10cm
☐ Dummy 10cm
☐ C 0.5% r.l.
☐ Optics 13 cm
☐ _____

PS1: _____
PS2: _____
PS3: _____
PS4: 0
PS5: _____
PS6: _____
Mode10: cer / fadc

Start time (from RC):

04:30

Stop time (from RC):

06:22

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

HMS prescale
pretrig: k
 $e-\pi n$ evts:
103K

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

COIN pretrig: k
☐ Data ok
☐ Junk

Comments:

GOOD SIEVE DATA, OPTICS 2

Run Number:

11827

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

PS1: _____
PS2: _____
PS3: _____
PS4: 0
PS5: _____
PS6: _____
Mode10: cer / fadc

Start time (from RC):

06:41

Stop time (from RC):

07:21

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

HMS prescale
pretrig: k
 $e-\pi n$ evts:
100K

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

COIN pretrig: k
☐ Data ok
☐ Junk

Comments:

GOOD SIEVE DATA, C (0.5%)

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

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

Date: 21/09/08
yy mm dd

Initials: _____

Continuation of Configuration:

HMS Sieve - 3/4 Trigger

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

Run Number: 11828	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (from RC): 7:22 Stop time (from RC): 7:42	☐ 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:							

Sieve Run 3/4 Trigger

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 (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:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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

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Use a separate sheet for each configuration.

Date: 21 / 09 / 08
yy mm dd

Initials: *jm*

HMS

SHMS

Configuration Name: _____

Heep Coin Check

#1

E_{beam}: 9.156 GeV

I_{beam}: 70 μ A

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
-0.5 mm		0 mm
Nomin:		Nomin:
3H07C	X	Y
-0.9 mm		-0.3 mm
Nomin:		Nomin:

Q1	I-SET (from PSU) 653.46 A B-HALL 0.87280 T RG	I-SET (from PSU) 1674.50 A B-HALL -10.636 kG	HB
Q2	I-SET (from PSU) 320.29 A B-HALL -1.01623 T RG	I-SET (from PSU) 1052.88 A B-HALL 7507 kG	Q1
Q3	I-SET (from PSU) 255.60 A B-HALL 0.51563 T RG	I-SET (from PSU) 1768.72 A B-HALL -16.674 kG	Q2
D	I-READ 1554.51 A B-NMR 1.37243 T	I-SET (from PSU) 1163.68 A B-HALL -11.264 kG	Q3
	If momentum increased: ☒ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) 1600.08 A B-NMR 11617 kG	D

Run Number:

11829

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

PS1: 1
PS2: -1
PS3: -6
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (from RC):

9:23

Stop time (from RC):

9:33

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

HMS prescale
pretrig: 60 k
 $e-\pi n$ evts:

SHMS prescale
pretrig: 272 k
 $\Sigma e-\pi n$ evts:

COIN pretrig: 10 k

- ☒ Data ok
☐ Junk

Comments:

Run Number:

11830

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

PS1: 1
PS2: -1
PS3: -6
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (from RC):

9:33

Stop time (from RC):

9:54

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

HMS prescale
pretrig: 91 k
 $e-\pi n$ evts:

SHMS prescale
pretrig: 1946 k
 $\Sigma e-\pi n$ evts:

COIN pretrig: 16 k

- ☒ Data ok
☐ Junk

Comments:

Run Number:

11831

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

PS1: 1
PS2: -1
PS3: -6
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (from RC):

9:54

Stop time (from RC):

10:26

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

HMS prescale
pretrig: 62 k
 $e-\pi n$ evts:

SHMS prescale
pretrig: 1133 k
 $\Sigma e-\pi n$ evts:

COIN pretrig: 18 k

- ☒ Data ok
☐ Junk

Comments:

~~Beam off~~ Beam off for Arc dipole work

Run Number:

11832

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

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

Start time (from RC):

16:09

Stop time (from RC):

16:25

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

HMS prescale
pretrig: 112 k
 $e-\pi n$ evts:

SHMS prescale
pretrig: 112 k
 $\Sigma e-\pi n$ evts:

COIN pretrig: k

- ☐ Data ok
☐ Junk

Comments:

C-hold check after accel work

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

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Date: 21/09/09
yy mm dd

Initials: CC

Continuation of Configuration:

Keep Coin Check

#1

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

Run Number: <u>11833</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (from RC): <u>00:25</u> Stop time (from RC): <u>00:55</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>73</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>1251</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>21</u> k ☒ Data ok ☐ Junk
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Keep running, 20 μ A current

Run Number: <u>11834</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (from RC): <u>00:56</u> Stop time (from RC): <u>01:04</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>17</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>284</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>6</u> k ☒ Data ok ☐ Junk
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20 μ A current

Run Number: <u>11835</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (from RC): <u>01:07</u> Stop time (from RC): <u>01:10</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>8</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>131</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>2</u> k ☒ Data ok ☐ Junk
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end due to beam crash, 20 μ A

Run Number: <u>11836</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (from RC): <u>01:23</u> Stop time (from RC): <u>01:28</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>8</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>125</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>3</u> k ☐ Data ok ☐ Junk
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40 μ A, end b.c. beam crash

Run Number: <u>11837</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (from RC): <u>01:30</u> Stop time (from RC): <u>01:32</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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40 μ A, end b.c. beam crash,

Run Number: <u>11838</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (from RC): <u>01:34</u> Stop time (from RC): <u>01:43</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>17</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>276</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>6</u> k ☒ Data ok ☐ Junk
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40 μ A

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

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

Date: 21 / 09 / 09
yy mm dd

Initials: CC

Continuation of Configuration:

HeeP Coin Check

#1

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

Run Number: 11839	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 1 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 01:56 Stop time (from RC): 02:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 18 k $e-\pi n$ evts:	SHMS prescale pretrig: 349 k $\Sigma e-\pi n$ evts:	COIN pretrig: 4 k ☒ Data ok ☐ Junk
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30 μ A, rc Gui $\rightarrow$ Detected disconnected component in system, CodaRc End service failed

Run Number: 11840	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 1 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 02:04 Stop time (from RC): 02:17	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 33 k $e-\pi n$ evts:	SHMS prescale pretrig: 605 k $\Sigma e-\pi n$ evts:	COIN pretrig: 8 k ☒ Data ok ☐ Junk
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30 μ A $\rightarrow$ ramping up to 70 μ A, restarted Coda, end b.c. beam crash

Run Number: 11841	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 1 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 02:36 Stop time (from RC): 02:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 65 k $e-\pi n$ evts:	SHMS prescale pretrig: 1417 k $\Sigma e-\pi n$ evts:	COIN pretrig: 10 k ☒ Data ok ☐ Junk
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60 μ A, some error as 11839 when ending run

Run Number: 11842	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 1 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 02:54 Stop time (from RC): 03:08	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 38 k $e-\pi n$ evts:	SHMS prescale pretrig: 728 k $\Sigma e-\pi n$ evts:	COIN pretrig: 10 k ☒ Data ok ☐ Junk
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60 μ A, multiple short beam trips, no error when ending run

Run Number: 11843	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 1 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 03:11 Stop time (from RC): 03:22	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 62 k $e-\pi n$ evts:	SHMS prescale pretrig: 1346 k $\Sigma e-\pi n$ evts:	COIN pretrig: 9 k ☒ Data ok ☐ Junk
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60 μ A

Run Number: 11844	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 1 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 03:23 Stop time (from RC): 03:41	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 70 k $e-\pi n$ evts:	SHMS prescale pretrig: 1435 k $\Sigma e-\pi n$ evts:	COIN pretrig: 13 k ☒ Data ok ☐ Junk
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60 μ A

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

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

Date: 21/09/09
yy mm dd

Initials: CC

Use a separate sheet for each configuration.

Configuration Name: _____

HMS Sieve Runs

(redo with old Q3 setting)

E_{beam}: 9.157 GeV

I_{beam}: 40 μ A

HMS

p: +0.738
From GUI

θ (TV): 15.010
Nearest 0.005

SHMS

p: -6.265
From GUI

θ (TV): 18.125
Nearest 0.005

Collimator:

HMS: Large ☐
Sieve ☒

SHMS: Collim ☒
Sieve ☐

Purpose:

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

Raster: ☐ On ☒ Off
Size: na

Beam position and angle
on target:

3H07A	X	Y
<u>-5</u> mm	<u>0.0</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>-9</u> mm	<u>-3</u> mm	
Nomin:	Nomin:	

HMS

SHMS

Q1	I-SET (from PSU) <u>486.99</u> A B-HALL <u>0.64530</u> T	I-SET (from PSU) <u>2110.07</u> A B-HALL <u>-13.398</u> kg	HB
Q2	I-SET (from PSU) <u>387.21</u> A B-HALL <u>-0.74667</u> T	I-SET (from PSU) <u>1317.90</u> A B-HALL <u>9.377</u> kg	Q1
Q3	I-SET (from PSU) <u>188.29</u> A B-HALL <u>0.37766</u> T	I-SET (from PSU) <u>2209.55</u> A B-HALL <u>-20.834</u> kg	Q2
D	I-READ <u>1146.54</u> A B-NMR <u>1.02334</u> T	I-SET (from PSU) <u>1453.86</u> A B-HALL <u>-14.000</u> kg	Q3
	If momentum increased: ☒ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>1998.91</u> A B-NMR <u>14.474</u> kg	D

Run Number:

11845

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

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

Start time (from RC):

04:53

Stop time (from RC):

05:36

- ☒ 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 (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:

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

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

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:

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

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

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/

Date: 21 / 09 / 09
yy mm dd

Initials: CC

Use a separate sheet for each configuration.

Configuration Name:

Heep Coin #2

E_{beam}: 9.157 GeV

I_{beam}: 70 μ A

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2 x 2

Beam position and angle on target:

3H07A	X	Y
-0.5 mm		0 mm
Nomin:		Nomin:
3H07C	X	Y
-0.9 mm		-0.3 mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) 486.99 A B-HALL 0.64730 T	I-SET (from PSU) 2110.07 A B-HALL -13.398 kg	HB
Q2	I-SET (from PSU) 387.219 A B-HALL -0.74521 T	I-SET (from PSU) 1317.9 A B-HALL 9.377 kg	Q1
Q3	I-SET (from PSU) 188.299 A B-HALL 0.38037 T	I-SET (from PSU) 2209.55 A B-HALL -20.834 kg	Q2
D	I-READ 1146.54 A B-NMR 1.02334 T	I-SET (from PSU) 1453.86 A B-HALL -14.060 kg	Q3
	If momentum increased: ☒ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) 1998.91 A B-NMR 14.474 kg	D

Run Number:

11846

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

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

Start time (from RC):

05:54

Stop time (from RC):

05:55

☐ 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:

Run Number:

11847

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

PS1: 2
PS2: -1
PS3: -1
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (from RC):

05:56

Stop time (from RC):

06:11

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 14 k

e- π n evts:

250

SHMS prescale
pretrig: 1412 k

Σ e- π n evts:

250

COIN
pretrig: 9 k

☒ Data ok

☐ Junk

Comments:

SHMS 527 May have HV issue intermittently

Run Number:

11848

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

PS1: 2
PS2: -1
PS3: -1
PS4: 0
PS5: -1
PS6: -1
Mode10: cer / fadc

Start time (from RC):

06:12

Stop time (from RC):

06:19

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 9 k

e- π n evts:

250

SHMS prescale
pretrig: 1409 k

Σ e- π n evts:

500

COIN
pretrig: 4 k

☒ Data ok

☐ Junk

Comments:

Run Number:

11849

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

PS1: 3
PS2: -1
PS3: -1
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (from RC):

06:22

Stop time (from RC):

06:35

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: 16 k

e- π n evts:

400

SHMS prescale
pretrig: 1450 k

Σ e- π n evts:

900

COIN
pretrig: 8 k

☐ Data ok

☐ Junk

Comments:

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

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

Date: 21, 09, 09
yy mm dd

Initials: CC

Continuation of Configuration:

Heep Coin #2

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

Run Number: 11850	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (from RC): 06:36 Stop time (from RC): 06:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 14 k $e-\pi n$ evts: 300	SHMS prescale pretrig: 1086 k $\Sigma e-\pi n$ evts: 1200	COIN pretrig: 8 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 11851	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (from RC): 07:00 Stop time (from RC): 07:02	☐ 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: - No data from SHMS! (scalers)							

Run Number: 11852	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (from RC): 07:19 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: - Data seems to have returned from SHMS, current reduced to 50kA - failed again							

Run Number: 11853	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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: 11854	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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: 11855	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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' π)n Run Sheet

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

Date: 21 / 09 / 09
yy mm dd

Initials: C Y

Continuation of Configuration:

Heep Coin #2

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

Run Number: 11856	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ___ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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: 11857	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ___ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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: 11858	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ___ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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:							

Power cycled Crate 14 after 11859

Run Number: 11859	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ___ cm ☐ _____	PS1: 2 PS2: -1 PS3: -1 PS4: 6 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 09:15 Stop time (from RC): 09:20	☒ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale pretrig: 7 k $e-\pi n$ evts: 200	SHMS prescale pretrig: 1101 k $\Sigma e-\pi n$ evts: 1400	COIN pretrig: 3 k ☒ Data ok ☐ Junk
Comments:							

SHMS S2Y Intermittent HV Alarms

Run Number: 11860	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ___ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 09:32 Stop time (from RC): 09:51	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 20 k $e-\pi n$ evts: 450	SHMS prescale pretrig: 1512 k $\Sigma e-\pi n$ evts: 1856	COIN pretrig: 12 k ☒ Data ok ☐ Junk
Comments:							

Still S2Y SHMS, Intermittent Alarm (Although Fewer)

Run Number: 11861	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ___ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 09:55 Stop time (from RC): 10:06	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 12 k $e-\pi n$ evts: 250	SHMS prescale pretrig: 844 k $\Sigma e-\pi n$ evts: 2100	COIN pretrig: 7 k ☒ Data ok ☐ Junk
Comments:							

p(e,e' π)n Run Sheet

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

Date: 21, 09, 09
yy mm dd

Initials: C.Y.

Continuation of Configuration:

Heep Coin #2

examining ^{slightly} to confirm

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

The ('data' & 'Junk') is maybe useable data

Run Number: 11863	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 3 PS2: -1 PS3: 7 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 11:02 am Stop time (from RC): 11:08 am	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 6 k SHMS prescale 403 k COIN pretrig: 4 k e- π n evts: 100 Σ e- π n evts: 2200	☒ Data ok ☐ Junk
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~~One SHMS slightly low~~ slightly may be slightly inefficient

Run Number: 11864	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 3 PS2: -1 PS3: 7 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 11:09 Stop time (from RC): 11:21	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 12 k SHMS prescale 824 k COIN pretrig: 8 k e- π n evts: 0 Σ e- π n evts: 2200	☒ Data ok ☐ Junk
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~~One SHMS slightly low~~ slightly may be slightly inefficient

Run Number: 11865	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 3 PS2: -1 PS3: 7 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 11:24 Stop time (from RC): 11:33	☐ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 11 k SHMS prescale 984 k COIN pretrig: 6 k e- π n evts: 300 Σ e- π n evts: 2500	☒ Data ok ☐ Junk
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slightly may be slightly inefficient ~~SHMS slightly~~ should be back to normal check carefully

Run Number: 11866	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: ____ PS2: ____ PS3: ____ PS4: ____ PS5: ____ PS6: ____ Mode10: cer / fadc	Start time (from RC): 11:34 Stop time (from RC): 11:58	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale ____ k SHMS prescale ____ k COIN pretrig: ____ k e- π n evts: 150 Σ e- π n evts: 2650	☒ Data ok ☐ Junk
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~~check SHMS slightly~~ slightly may be slightly inefficient

Run Number: 11867	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: ____ PS2: ____ PS3: ____ PS4: ____ PS5: ____ PS6: ____ Mode10: cer / fadc	Start time (from RC): 11:41 Stop time (from RC): 11:58	☐ Settings Verified? ☐ HV OK? ☐ 50k OK?	HMS prescale 12 k SHMS prescale 1806 k COIN pretrig: 11 k e- π n evts: 450 Σ e- π n evts: 3100	☐ Data ok ☐ Junk
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Back to normal

Run Number: 11868	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm	PS1: 3 PS2: -1 PS3: 7 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 12:00 Stop time (from RC): 	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale 17 k SHMS prescale 1598 k COIN pretrig: 8 k e- π n evts: 450 Σ e- π n evts: 3550	☐ Data ok ☐ Junk
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DAQ ended "funny". NOTE: No 11869

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

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

Date: 21, 09, 09
yy mm dd

Initials: C.Y.

Continuation of Configuration:

Heep Coin #2

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

Run Number: 11870	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 12:18 Stop time (from RC): 12:36	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 23 k pretrig: $e-\pi n$ evts: 550	SHMS prescale 2129 k pretrig: $\Sigma e-\pi n$ evts: 4100	COIN pretrig: 11 k ☒ Data ok ☐ Junk
Comments:							

Note! No 11869

Run Number: 11871	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 12:37 Stop time (from RC): 12:53	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 21 k pretrig: $e-\pi n$ evts: 500	SHMS prescale 1824 k pretrig: $\Sigma e-\pi n$ evts: 4600	COIN pretrig: 1.1 k ☒ Data ok ☐ Junk
Comments:							

DAQ ENDED "funny"

Run Number: 11872	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 12:56 Stop time (from RC): 13:14	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 22 k pretrig: 117 $e-\pi n$ evts: 500	SHMS prescale 1855 k pretrig: 1600 $\Sigma e-\pi n$ evts: 5100	COIN pretrig: 1.01 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 11873	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 13:15 Stop time (from RC): 13:32	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 14 k pretrig: $e-\pi n$ evts: 400	SHMS prescale 1600 k pretrig: $\Sigma e-\pi n$ evts: 5500	COIN pretrig: 1.0 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 11874	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 3 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 13:33 Stop time (from RC): 13:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale ____ k pretrig: $e-\pi n$ evts: 450	SHMS prescale ____ k pretrig: $\Sigma e-\pi n$ evts: 5950	COIN pretrig: ____ k ☒ Data ok ☐ Junk
Comments:							

Run Number: 11875	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 8 PS2: -1 PS3: -1 PS4: 0 PS5: 0 PS6: -1 Mode10: cer / fadc	Start time (from RC): 13:53 Stop time (from RC): 14:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale 35 k pretrig: $e-\pi n$ evts: 800	SHMS prescale 131 k pretrig: $\Sigma e-\pi n$ evts: 6750	COIN pretrig: 20 k ☒ Data ok ☐ Junk
Comments:							

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

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

Date: 21/09/09
yy mm dd

Initials: RRR

Continuation of Configuration:

Heep Coin #2

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

Run Number: 11876	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 8 PS2: 7 PS3: 7 PS4: 0 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (from RC): 14:24 Stop time (from RC): 14:54	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 35 k $e-\pi n$ evts: 750	SHMS prescale pretrig: 124 k $\Sigma e-\pi n$ evts: 7500	COIN pretrig: 19 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 11877	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 8 PS2: 7 PS3: 7 PS4: 0 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (from RC): 14:55 Stop time (from RC): 15:27	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 40 k $e-\pi n$ evts: 950	SHMS prescale pretrig: 150 k $\Sigma e-\pi n$ evts: 8450	COIN pretrig: 20 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 11878	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 8 PS2: 7 PS3: 7 PS4: 0 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (from RC): 15:28 Stop time (from RC): 16:04	☒ Settings Verified? ☐ HV OK? ☒ 50k OK?	HMS prescale pretrig: 45 k $e-\pi n$ evts: 1050	SHMS prescale pretrig: 172 k $\Sigma e-\pi n$ evts: 9500	COIN pretrig: 23 k ☒ Data ok ☐ Junk
Comments:							

Run Number: 11879	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: 8 PS2: 1 PS3: 1 PS4: 0 PS5: 0 PS6: 1 Mode10: cer / fadc	Start time (from RC): 16:10 Stop time (from RC): 16:52	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 27 k $e-\pi n$ evts: 24	SHMS prescale pretrig: 44 k $\Sigma e-\pi n$ evts:	COIN pretrig: 20 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 (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:	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	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/

Date: 21/09/09
yy mm dd

Initials: *SR*

Use a separate sheet for each configuration.

Configuration Name:

Heap-check (2ND TIME)
 $p(e,e'\pi)$ equal angle & momenta

E_{beam} : 9.158 GeV

I_{beam} : 70 μA

Purpose:

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

Raster: ☒ On ☐ Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
-0.5	mm	0.0
Nomin:		Nomin:
3H07C	X	Y
-0.9	mm	-0.3
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU)	653.48 A	I-SET (from PSU)	1674.90 A	HB
	B-HALL	0.87110 T	B-HALL	-10.637 kG	
Q2	I-SET (from PSU)	520.28 A	I-SET (from PSU)	1052.92 A	Q1
	B-HALL	-1.01644 T	B-HALL	7.506 kG	
Q3	I-SET (from PSU)	252.56 A	I-SET (from PSU)	1768.72 A	Q2
	B-HALL	0.50615 T	B-HALL	-16.674 kG	
D	I-READ	1554.66 A	I-SET (from PSU)	1163.68 A	Q3
	B-NMR	1.37300 T	B-HALL	-11.266 kG	
If momentum increased:			I-SET (from PSU)		D
☒ HMS cycled?			1600.00 A		
☐ SHMS cycled?			11.611 kG		

Run Number:

11880

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

PS1: 6
PS2: -1
PS3: -1
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (from RC):

17:39

Stop time (from RC):

18:09

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

HMS prescale
pretrig: 186 k
 $e-\pi n$ evts:
ELASTICS
5800

SHMS prescale
pretrig: 282 k
 $\Sigma e-\pi n$ evts:

COIN pretrig: 25 k
☒ Data ok
☐ Junk

Comments:

Roughly 5800 good COIN

Run Number:

11881

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

PS1: 6
PS2: -1
PS3: -1
PS4: 0
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (from RC):

18:11

Stop time (from RC):

18:45

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

HMS prescale
pretrig: 193 k
 $e-\pi n$ evts: ep
6200

SHMS prescale
pretrig: 289 k
 $\Sigma e-\pi n$ evts: ep
11000

COIN pretrig: 27 k
pretrig: 27 k
☒ Data ok
☐ Junk

Comments:

Run Number:

11882

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

PS1: 6
PS2: -1
PS3: -1
PS4: 0
PS5: -9
PS6: -1
Mode10: cer / fadc

Start time (from RC):

18:53

Stop time (from RC):

19:09

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

HMS prescale
pretrig: 22 k
 $e-\pi n$ evts:
70

SHMS prescale
pretrig: 29 k
 $\Sigma e-\pi n$ evts:

COIN pretrig: 10 k
pretrig: 10 k
☒ Data ok
☐ Junk

Comments:

Beam unstable for first ~5min.

Run Number:

Comments: