

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

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

Date: 22/09/01
yy mm dd

Initials: GH

Use a separate sheet for each configuration.

Configuration Name: _____

HMS Lumi
Scan - (LHC)

E_{beam}: 6.3 GeV

I_{beam}: various 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
-0.098 mm		-0.28 mm
Nomin: -0.09		Nomin: -0.3
3H07C	X	Y
-0.10 mm		-0.51 mm
Nomin: -0.68		Nomin: -0.49

HMS

SHMS

I-SET (from PSU)	A	I-SET (from PSU)	A
Q1	1319.14	Q1	1319.14
B-HALL		B-HALL	
0.6811	T	8.332	kg
I-SET (from PSU)	A	I-SET (from PSU)	A
Q2	833.5	Q2	833.5
B-HALL		B-HALL	
-0.795	T	-5.879	kg
I-SET (from PSU)	A	I-SET (from PSU)	A
Q3	1400	Q3	1400
B-HALL		B-HALL	
0.40074	T	13.105	kg
I-READ	A	I-SET (from PSU)	A
D	1218.83	Q3	1218.83
B-NMR		B-HALL	
1.08684	T	8.928	kg
If momentum increased:		I-SET (from PSU)	A
☐ HMS cycled?		1/266	A
☐ SHMS cycled?		B-NMR	
		-9.244	kg

Run Number:

16708

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

PS1: -1
PS2: -1
PS3: -1
PS4: 5
PS5: -1
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

15:53

Stop time (RC GUI):

16:05

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

HMS prescale
pretrig: 177 k

$e-\pi n$ evts:
Q = 15.98 mC

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN
pretrig: k

- ☒ Data ok
☐ Junk

Comments:

25 μ A

Run Number:

16709

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

PS1: -1
PS2: -1
PS3: -1
PS4: 4
PS5: -1
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

16:07

Stop time (RC GUI):

16:21

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

HMS prescale
pretrig: 1024 k

$e-\pi n$ evts:
Q = 10.96 mC

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN
pretrig: k

- ☒ Data ok
☐ Junk

Comments:

15 μ A

1.02 M events

Run Number:

16710

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

PS1: -1
PS2: -1
PS3: -1
PS4: 5
PS5: -1
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

16:23

Stop time (RC GUI):

16:46

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

HMS prescale
pretrig: 1061 k

$e-\pi n$ evts:
Q = 11.17 mC

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN
pretrig: k

- ☒ Data ok
☐ Junk

Comments:

8 μ A

1.06 M events

I had it set to 3, but the GUI lied!

Run Number:

16711

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

PS1: -1
PS2: -1
PS3: -1
PS4: 5
PS5: -1
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

16:50

Stop time (RC GUI):

17:01

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

HMS prescale
pretrig: 147 k

$e-\pi n$ evts:
Q = 157 mC

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN
pretrig: k

- ☒ Data ok
☒ Junk

Comments:

2.5 μ A

147 k events

Replayed data gives ZERO charge! I had set it to 1 on GUI, but it lied! Restart cOBA

p(e,e' π)n Run Sheet

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

Date: 22/09/01
yy mm dd

Initials: GH

Continuation of Configuration:

HMS Lumi Scan
(LA2/Dummy/LD2)

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

Run Number: 16712	☒ 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>1</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): 17:04 Stop time (RC GUI): 17:14	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 1047 k $e-\pi n$ evts: Q = 1.392	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☒ Junk
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Comments:

2.5nt

1.04M events

But the replay gives Q=0! (probably a Beam current cut issue)

Run Number: 16713	☐ 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>4</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): 17:23 Stop time (RC GUI): 17:34	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 1250 k $e-\pi n$ evts: Q = 21.460	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments:

40nt

1.25M evts.

Run Number: 16714	☐ 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>7</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): 17:46 Stop time (RC GUI): 17:57	☐ 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:

80nt, but beam not stable.

846k evts only a few minutes actually @ 80nt.

Run Number: 16715	☐ 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>7</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): 17:58 Stop time (RC GUI): 18:06	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: root file	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts: empty	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments:

80nt, redo it hoping for better beam, about 5min w/o trips. 1039k evts.

Run Number: 16716	☐ 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>7</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): 19:11 Stop time (RC GUI): 19:19	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 1381 k $e-\pi n$ evts: Q = 32.395	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments:

80nt, a second run, after MCC tune beam to improve stability

1356k evts

Run Number: 16717	☐ 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>7</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: cer / fadc	Start time (RC GUI): 19:24 Stop time (RC GUI): 19:35	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k $e-\pi n$ evts: root file empty	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
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Comments:

80nt

Need to restart CODA

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

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

Date: 22/09/01
yy mm dd

Initials: GH

Continuation of Configuration:

HMS Lumi Scan
(LD2)

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

Run Number: <u>16718</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>1</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>19:42</u> Stop time (RC GUI): <u>19:58</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>1456</u> k $e-\pi n$ evts: <u>$Q=32.906$</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☒ Data ok ☐ Junk
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Comments:

40nA

1.45M events, beam off for 2min in total.

Run Number: <u>16719</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>6</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>20:02</u> Stop time (RC GUI): <u>20:13</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: <u>Replay</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: <u>errors</u>	COIN pretrig: _____ k ☐ Data ok ☐ Junk
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Comments:

25nA

Run Number: <u>16720</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>6</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>20:15</u> Stop time (RC GUI): <u>20:17</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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Comments:

15nA

Short run to check prescales.

Run Number: <u>16721</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>5</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>20:18</u> Stop time (RC GUI): <u>20:30</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>7</u> k $e-\pi n$ evts: <u>$Q=9.124$</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☒ Data ok ☐ Junk
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Comments:

15nA

Need to restart CODA again.

Run Number: <u>16722</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>4</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>20:32</u> Stop time (RC GUI): <u>20:43</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>514</u> k $e-\pi n$ evts: <u>$Q=4.728$</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☒ Data ok ☐ Junk
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Comments:

8nA

1.5M evts.

Run Number: <u>16723</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>3</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>20:44</u> Stop time (RC GUI): <u>20:54</u>	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>1606</u> k $e-\pi n$ evts: <u>$Q=2.741$</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k ☒ Data ok ☐ Junk
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Comments:

5nA

1.6M events

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

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

Date: 22 09 01
yy mm dd

Initials: GH

Continuation of Configuration:

HMS Lumi Scan.
(LD2, C)

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

Run Number: 16724	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: -1 PS2: -1 PS3: -1 PS4: 3 PS5: -1 PS6: -1 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
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Comments:
2.5mA

Short run to check prescales.

Run Number: 16725	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: -1 PS2: -1 PS3: -1 PS4: 2 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 21:00 Stop time (RC GUI): 21:13	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 1608 k $e-\pi n$ evts: Q=1.709	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	☒ Data ok ☐ Junk
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Comments:
2.5mA

1.67 M evts.

Run Number: 16726	☐ 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 (RC GUI): 21:17 Stop time (RC GUI): 21:28	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 1827 k $e-\pi n$ evts: Q=0.812	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	☒ Data ok ☐ Junk
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Comments:
1mA

1.82 M evts

Run Number: 16727	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: -1 PS2: -1 PS3: -1 PS4: 4 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:16 Stop time (RC GUI): 22:21	☐ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 806 k $e-\pi n$ evts: Q=23.995	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	☒ Data ok ☐ Junk
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Comments:
80mA

a bit unstable.

Run Number: 16728	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: -1 PS2: -1 PS3: -1 PS4: 4 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:22 Stop time (RC GUI): 22:32	☐ 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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Comments:

80mA, again with more stable beam.

Need to restart CODA

Run Number: 16729	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: -1 PS2: -1 PS3: -1 PS4: 3 PS5: -1 PS6: -1 Mode10: cer / fadc	Start time (RC GUI): 22:35 Stop time (RC GUI): 22:45	☐ 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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Comments:

60mA

1.75M evts.

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

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

Date: 22/09/01
yy mm dd

Initials: GH

Continuation of Configuration:

AMS Lumi Scan
(c)

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

Run Number: 16730	☐ 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>1</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> fadc	Start time (RC GUI): 22:47 Stop time (RC GUI): 22:59	☐ 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:

40nA

1.54M evts.

Run Number: 16731	☐ 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>2</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> fadc	Start time (RC GUI): 23:00 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
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Comments:

25nA

1.47M evts

Run Number: 16732	☐ 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>2</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> fadc	Start time (RC GUI): 23:12 Stop time (RC GUI): 23:20	☐ 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:

15nA

580k evts.

Run Number: 16733	☐ 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>1</u> PS5: <u>1</u> PS6: <u>1</u> Mode10: <u>cer</u> fadc	Start time (RC GUI): 23:21 Stop time (RC GUI): 23:31	☐ 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:

15nA, another run but lower prescale.

Restart codes

Run Number: 16734	☐ 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>1</u> PS6: <u>1</u> Mode10: <u>cer</u> fadc	Start time (RC GUI): 23:33 Stop time (RC GUI): 23:45	☐ 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
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Comments:

8nA

1.58M evts.

Run Number: 16735	☐ 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>1</u> PS6: <u>1</u> Mode10: <u>cer</u> fadc	Start time (RC GUI): 23:46 Stop time (RC GUI): 00:05:05	☐ 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
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Comments:

5nA

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

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

Date: 22/09/02
yy mm dd

Initials: GH

Continuation of Configuration:

HMS Lumi Scan
(c)

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

Run Number: <u>16736</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>1</u> PS6: <u>1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>00:06</u> Stop time (RC GUI): <u>0:35</u>	☐ Settings Verified? ☒ HV OK? ☐ 50k OK?	HMS prescale pretrig: k <u>Q=0.437</u> $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☒ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							

Run Number: <u>16737</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>1</u> PS3: <u>0</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>0:37</u> Stop time (RC GUI): <u>1:02</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>Q=0.437</u> $e-\pi n$ evts:	SHMS prescale pretrig: k $\Sigma e-\pi n$ evts:	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>1.0 μA</u>							

Run Number: <u>16738</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>1:03</u> Stop time (RC GUI): <u>1:28</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
Comments: <u>1.0 μA</u>							

start of SHMS Lumi scans. Have same angle / Mom. as HMS, Put in values after

Run Number: <u>16739</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>1:30</u> Stop time (RC GUI): <u>1:42</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: <u>2.5 μA</u>							

Run Number: <u>16740</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>1:43</u> Stop time (RC GUI): <u>1:53</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: <u>5 μA</u>							

Run Number: <u>16741</u>	☐ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☒ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>0</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>0</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>1:54</u> Stop time (RC GUI): <u>2:04</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: <u>8 μA</u>							

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

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

Date: 22/09/02
yy mm dd

Initials: NL

Continuation of Configuration:

SHMS Lumi Scan

(C/WD) 3-Pass

$\theta = 14.40^\circ$
 $P = -3.970$

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

Run Number:

16742

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

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

Start time (RC GUI):

2:06

Stop time (RC GUI):

2:19

- ☒ 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:

15 nA

Run Number:

16743

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

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

Start time (RC GUI):

2:20

Stop time (RC GUI):

2:30

- ☒ 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:

25 nA

Run Number:

16744

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

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

Start time (RC GUI):

2:32

Stop time (RC GUI):

2:43

- ☒ 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 nA

Run Number:

16745

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

PS1: -1
PS2: 4
PS3: /
PS4: /
PS5: /
PS6: /
Mode10: cer / fadc

Start time (RC GUI):

2:44

Stop time (RC GUI):

2:57

- ☒ 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:

60 nA

Run Number:

16746

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

PS1: -1
PS2: 4
PS3: /
PS4: /
PS5: /
PS6: /
Mode10: cer / fadc

Start time (RC GUI):

2:59

Stop time (RC GUI):

3:12

- ☒ 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

Comments:

80 nA

Run Number:

16747

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

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

Start time (RC GUI):

3:26

Stop time (RC GUI):

3:45

- ☒ 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

Comments:

80 nA

p(e,e' π)n Run Sheet

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

Date: 22/09/02
yy mm dd

Initials: NH

Continuation of Configuration:

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

3-pass SHMS Lumi
Scan (LD)

Run Number: <u>16748</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>8</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>3:46</u> Stop time (RC GUI): <u>4:00</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☒ Data ok ☐ Junk
Comments: <u>60uA</u> <u>Coda fail on exit</u>							

Run Number: <u>16750</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>7</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:03</u> Stop time (RC GUI): <u>4:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>40uA</u> <u>Coda crash on exit</u> <u>16749 - Coda crash on start</u>							

Run Number: <u>16751</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>6</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:17</u> Stop time (RC GUI): <u>4:29</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>25 uA</u>							

Run Number: <u>16752</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>6</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:31</u> Stop time (RC GUI): <u>4:42</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>15 uA</u>							

Run Number: <u>16753</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:43</u> Stop time (RC GUI): <u>4:57</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>8uA</u>							

Run Number: <u>16754</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>4:59</u> Stop time (RC GUI): <u>5:10</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>5uA</u> <u>Coda fail on exit</u>							

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

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

Date: 22/09/02
yy mm dd

Initials: NH

Continuation of Configuration:

3-pass SHMS LumiScan
(LH2/Dummy/LH2)

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

Run Number: <u>16755</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>3</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>5:12</u> Stop time (RC GUI): <u>5:23</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>2.5 μA</u>							

Run Number: <u>16756</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>1</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>5:24</u> Stop time (RC GUI): <u>5:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>1 μA</u>							

Run Number: <u>16757</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>5:45</u> Stop time (RC GUI): <u>5:51</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☒ Data ok ☐ Junk
Comments: <u>40 μA</u> - Very little beam							

Run Number: <u>16758</u>	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>6:07</u> Stop time (RC GUI): <u>6:18</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>40 μA</u>							

Run Number: <u>16759</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>7</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>6:25</u> Stop time (RC GUI): <u>6:39</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>80 μA</u>							

Run Number: <u>16760</u>	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>6</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>6:40</u> Stop time (RC GUI): <u>6:50</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: k <u>e-πn evts:</u>	SHMS prescale pretrig: k <u>Σ e-πn evts:</u>	COIN pretrig: k ☐ Data ok ☐ Junk
Comments: <u>40 μA</u>							

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

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

Date: 22/09/02
yy mm dd

Initials: NH

Continuation of Configuration:

SHMS Lumi Scan 3-pass
(LHz)

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

Run Number: 16761	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: cer / fadc	Start time (RC GUI): 6:51 Stop time (RC GUI): 6:01	☒ 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:
25 nA

code fail on exit

Run Number: 16762	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: cer / fadc	Start time (RC GUI): 7:02 Stop time (RC GUI): 7:13	☒ 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
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Comments:
15 nA

(rate is ~ 3 kHz may have livetime issue)
to disc

Run Number: 16763	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>-1</u> PS2: <u>4</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: cer / fadc	Start time (RC GUI): 7:14 Stop time (RC GUI): 7:29	☒ 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:
8 nA

Run Number: 16764	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____ cm ☐ _____	PS1: <u>1</u> PS2: <u>7</u> PS3: <u>/</u> PS4: <u>/</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: cer / fadc	Start time (RC GUI): 7:30 Stop time (RC GUI): 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
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Comments:
60 nA

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
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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
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Comments: