

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

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

Date: 22 / 8 / 8
yy mm dd

Initials: PS.

Use a separate sheet for each configuration.

Configuration Name:

$Q^2 = 6.00$ $W = 2.40$ $x = 0.55$
high e SHMS left

E_{beam}: 10,542 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
	<u>-0.08</u> mm	<u>-0.30</u> mm
Nomin:		
3H07C	X	Y
	<u>-0.69</u> mm	<u>-0.49</u> mm
Nomin:		

HMS

SHMS

Q1	I-SET (from PSU) <u>618.70</u> A B-HALL <u>0.81650</u> T	I-SET (from PSU) <u>1844.0</u> A B-HALL <u>11.637</u> kG	HB
Q2	I-SET (from PSU) <u>492.58</u> A B-HALL <u>-0.95738</u> T	I-SET (from PSU) <u>1157.7</u> A B-HALL <u>-8.163</u> kG	Q1
Q3	I-SET (from PSU) <u>239.03</u> A B-HALL <u>0.48280</u> T	I-SET (from PSU) <u>1943.1</u> A B-HALL <u>18.245</u> kG	Q2
D	I-READ <u>1464.0</u> A B-NMR <u>1.30094</u> T	I-SET (from PSU) <u>1280.0</u> A B-HALL <u>12.383</u> kG	Q3
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>1757.5</u> A B-NMR <u>-12.844</u> kG	D

Run Number:

16002

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

PS1: 7
PS2: -1
PS3: -1
PS4: 3
PS5: 0
PS6: 1
Mode10: cer / fadc

Start time (RC GUI):

00:36

Stop time (RC GUI):

01:36

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

HMS prescale
pretrig: 196 k

SHMS prescale
pretrig: 138 k

COIN
pretrig: 25 k

$e-\pi n$ evts:
36

$\Sigma e-\pi n$ evts:
36

- ☒ Data ok
☐ Junk

Comments:

Dummy

$Q = 84.245$ mC
 $\Sigma Q = 84.245$ mC

Run Number:

16003

- ☐ 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

SHMS prescale
pretrig: _____ k

COIN
pretrig: _____ k

$e-\pi n$ evts: _____

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

- ☐ Data ok
☒ Junk

Comments:

WRONG PRESCALES

Run Number:

16004

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: _____ k

SHMS prescale
pretrig: _____ k

COIN
pretrig: _____ k

$e-\pi n$ evts: _____

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

- ☐ Data ok
☐ Junk

Comments:

LD2, FADC - NO REPLAYS

Run Number:

16005

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: 202 k

SHMS prescale
pretrig: 285 k

COIN
pretrig: 97 k

$e-\pi n$ evts: 1725

$\Sigma e-\pi n$ evts: 1725

- ☒ Data ok
☐ Junk

Comments:

$Q = 211.550$ mC
 $\Sigma Q = 211.550$ mC

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

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Date: 12/8/0
yy mm dd

Initials: PS

Continuation of Configuration:

$Q^2 = 6.90$ $W = 2.40$ $x = 0.55$
high e SMMS left

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

Run Number: <u>16006</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>02:36</u> Stop time (RC GUI): <u>03:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>24</u> k SHMS prescale <u>297</u> k $e-\pi n$ evts: <u>1734</u>	$\Sigma e-\pi n$ evts: <u>3459</u>	COIN pretrig: <u>101</u> k ☒ Data ok ☐ Junk
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$Q = 220.451$ mc
 $\Sigma Q = 432.001$ mc

Run Number: <u>16007</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>03:36</u> Stop time (RC GUI): <u>04:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>188</u> k SHMS prescale <u>265</u> k $e-\pi n$ evts: <u>1542</u>	$\Sigma e-\pi n$ evts: <u>5007</u>	COIN pretrig: <u>94</u> k ☒ Data ok ☐ Junk
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$Q = 196.717$ mc
 $\Sigma Q = 628.718$ mc

Run Number: <u>16008</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>04:36</u> Stop time (RC GUI): <u>05:36</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>204</u> k SHMS prescale <u>287</u> k $e-\pi n$ evts: <u>1633</u>	$\Sigma e-\pi n$ evts: <u>6634</u>	COIN pretrig: <u>99</u> k ☒ Data ok ☐ Junk
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$Q = 213.247$
 $\Sigma Q = 841.965$

Run Number: <u>16009</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>05:36</u> Stop time (RC GUI): <u>06:27</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>158</u> k SHMS prescale <u>226</u> k $e-\pi n$ evts: <u>1274</u>	$\Sigma e-\pi n$ evts: <u>7908</u>	COIN pretrig: <u>79</u> k ☒ Data ok ☐ Junk
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HMS Q2 interlock - cleared

$Q = 168.079$ mc
 $\Sigma Q = 1070.044$ mc

Run Number: <u>16010</u>	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>10</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>06:43</u> Stop time (RC GUI): <u>07:09</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale <u>69</u> k SHMS prescale <u>97</u> k $e-\pi n$ evts: <u>587</u>	$\Sigma e-\pi n$ evts: <u>8489</u>	COIN pretrig: <u>36</u> k ☒ Data ok ☐ Junk
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$Q = 72.266$ mc
 $\Sigma Q = 1082.310$ mc

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 k SHMS prescale k $e-\pi n$ evts: $\Sigma e-\pi n$ evts: 	COIN pretrig: k ☐ Data ok ☐ Junk
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$p(e,e'\pi)n$ Run Sheet

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

Date: 22/08/08
yy mm dd

Initials: _____

Use a separate sheet for each configuration.

Configuration Name:

$Q^2 = 6.0$ $W = 2.40$ $x = 0.55$

high e

SHMS ~~low~~ Cent

E_{beam} : 10512 GeV

I_{beam} : 70 μA

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
-0.08	mm	-0.30
Nomin:		Nomin:
3H07C	X	Y
-0.69	mm	-0.49
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) 618.70 B-HALL 0.81650 I-SET (from PSU) 492.58 B-HALL -0.95738 I-SET (from PSU) 239.03 B-HALL 0.48280 I-READ 7.464,0 B-NMR 13.0094	A	1844.0 11.637 1157.9 1943.1 18.245 12.383 1757.5	A	HB kg Q1 kg Q2 kg Q3 kg D
Q2	I-SET (from PSU) 1844.0 B-HALL 11.637 I-SET (from PSU) 1157.9 B-HALL -8.163 I-SET (from PSU) 1943.1 B-HALL 18.245 I-SET (from PSU) 12.383 B-HALL 1757.5 B-NMR -13.844	A	1844.0 11.637 1157.9 1943.1 18.245 12.383 1757.5	A	HB kg Q1 kg Q2 kg Q3 kg D

Run Number:

16011

Comments:

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: 7
Mode10: cer / fadc

Start time (RC GUI):

07:16

Stop time (RC GUI):

08:12

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

HMS prescale
pretrig: 153 k

$e-\pi n$ evts:

1857

SHMS prescale
pretrig: 428 k

$\Sigma e-\pi n$ evts:

1857

COIN pretrig: 119 k

☒ Data ok

☐ Junk

#11 1857

$Q = 160.212$
 $\Sigma Q = 160.212$

Run Number:

16012

Comments:

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

PS1: 10
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

08:33:54

Stop time (RC GUI):

09:33:54

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

HMS prescale
pretrig: 163 k

$e-\pi n$ evts:

1955

SHMS prescale
pretrig: 454 k

$\Sigma e-\pi n$ evts:

3812

COIN pretrig: 121 k

☒ Data ok

☐ Junk

PLEASE ADJUST $\uparrow$ PRESCALES

$Q = 170.027$
 $\Sigma Q = 330.239$

Run Number:

16013

Comments:

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

PS1: 11
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

09:36:11

Stop time (RC GUI):

09:48:00

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

HMS prescale
pretrig: 185 k

$e-\pi n$ evts:

2286

SHMS prescale
pretrig: 257 k

$\Sigma e-\pi n$ evts:

6098

COIN pretrig: 135 k

☐ Data ok

☐ Junk

JUNK

$Q = 192.912$

Run Number:

16017

Comments:

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

PS1: 11
PS2: -1
PS3: -1
PS4: 7
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

10:40:52

Stop time (RC GUI):

11:40:16

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

HMS prescale
pretrig: 185 k

$e-\pi n$ evts:

2286

SHMS prescale
pretrig: 257 k

$\Sigma e-\pi n$ evts:

6098

COIN pretrig: 135 k

☒ Data ok

☐ Junk

Changed PS1 from 10 to 11.

$Q = 192.912$
 $\Sigma Q = 522.151$

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

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

Date: 22/08/08
yy mm dd

Initials: VLT

Continuation of Configuration:

$Q^2 = 6.00$, $W = 2.42$, $x = 0.55$

high z , SHMS ~~cut~~ cent (14.91°)

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

Run Number: 16018	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>11:10:57</u> Stop time (RC GUI): <u>12:10:41</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>114</u> k $e-\pi n$ evts: <u>1385</u>	SHMS prescale pretrig: <u>156</u> k $\Sigma e-\pi n$ evts: <u>7493</u>	COIN pretrig: <u>91</u> k ☒ Data ok ☐ Junk
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$Q = 117.424$
 $\Sigma Q = 117.424640.575$

Run Number: 16019	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>12:11:25</u> Stop time (RC GUI): <u>13:11:02</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>172</u> k $e-\pi n$ evts: <u>2059</u>	SHMS prescale pretrig: <u>240</u> k $\Sigma e-\pi n$ evts: <u>9552</u>	COIN pretrig: <u>131</u> k ☒ Data ok ☐ Junk
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$2095 Q = 179.683$
 $\Sigma Q = 820.258$

Run Number: 16020	☒ LH2 10cm ☐ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>13:11:49</u> Stop time (RC GUI): <u>14:10:14</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>179</u> k $e-\pi n$ evts: <u>2151</u>	SHMS prescale pretrig: <u>250</u> k $\Sigma e-\pi n$ evts: <u>11703</u>	COIN pretrig: <u>133</u> k ☒ Data ok ☐ Junk
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$Q = 186.999$
 $\Sigma Q = 1007.257$

Run Number: 16021	☐ LH2 10cm ☒ LD2 10cm ☐ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>14:11:08</u> Stop time (RC GUI): <u>15:18:33</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>244</u> k $e-\pi n$ evts: <u>2801</u>	SHMS prescale pretrig: <u>341</u> k $\Sigma e-\pi n$ evts: <u>14504</u>	COIN pretrig: <u>176</u> k ☒ Data ok ☐ Junk
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$Q = 255.260$
 $\Sigma Q = 1262.517$

Run Number: 16022	☐ LH2 10cm ☐ LD2 10cm ☒ Dummy 10cm ☐ C 0.5% r.l. ☐ Optics ____cm ☐ _____	PS1: <u>11</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>7</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>15:27:30</u> Stop time (RC GUI): <u>16:03</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>14</u> k $e-\pi n$ evts: <u>44</u>	SHMS prescale pretrig: <u>16</u> k $\Sigma e-\pi n$ evts: <u>44</u>	COIN pretrig: <u>23</u> k ☒ Data ok ☐ Junk
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Dummy target.

$Q = 77.546$

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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