

p(e,e' π)n Run Sheet

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

Date: 22 10 10 1
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name:
Keep Siny #1
3-pass

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

E_{beam}: 6.3 GeV **I_{beam}:** _____ μ A

Raster: On Off
Size: 2x2

HMS
p: +05.587 **θ (TV):** 13.295
From GUI Nearest 0.005

SHMS
p: +06.265 **θ (TV):** 7.995
From GUI Nearest 0.005

Collimator: **HMS:** Large Sieve **SHMS:** Collim Sieve

Beam position and angle on target:

3H07A	X	Y
<u>-0.1</u>	mm	<u>-0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.7</u>	mm	<u>-0.5</u> mm
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>0.96610</u> A B-HALL T	I-SET (from PSU) <u>2110.07</u> A B-HALL T	HB
Q2	I-SET (from PSU) <u>593.076</u> A B-HALL T	I-SET (from PSU) <u>1317.9</u> A B-HALL T	Q1
Q3	I-SET (from PSU) <u>281.554</u> A B-HALL T	I-SET (from PSU) <u>2209.55</u> A B-HALL T	Q2
D	I-READ <u>1779.2</u> A B-NMR T	I-SET (from PSU) <u>1453.86</u> A B-HALL T	Q3
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?		D
		<u>1998.91</u> A B-NMR T	
		<u>-14.562</u> KG	

Run Number: <u>16683</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>9</u> PS2: <u>X</u> PS3: <u>3</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u> Mode10: cer / fadc	Start time (RC GUI): <u>5:03</u> Stop time (RC GUI): <u>5:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 10 μ A HMS: 141336 SHMS: 123063 Q = 6.0016

Run Number: <u>16684</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ___ cm <input type="checkbox"/> _____	PS1: <u>10</u> PS2: <u>X</u> PS3: <u>3</u> PS4: <u>X</u> PS5: <u>X</u> PS6: <u>X</u> Mode10: cer / fadc	Start time (RC GUI): <u>5:23</u> Stop time (RC GUI): <u>5:34</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-πn evts:	SHMS prescale pretrig: k Σ e-πn evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 40 μ A SHMS: 12734 HMS: 25816 Q = 14.453

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

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

Date: 2209101
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: 3-pass
Keep Singles setting #2

Purpose:

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

E_{beam} : 6.3 GeV I_{beam} : _____ μA

Raster: On Off
 Size: 2x2

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

Q1	I-SET (from PSU) <u>693</u>	A	I-SET (from PSU) <u>1846</u>	A	HB
	B-HALL		B-HALL		
	<u>0.92</u>	T	<u>11.6</u>	KG	
Q2	I-SET (from PSU) <u>553</u>	A	I-SET (from PSU) <u>1157</u>	A	Q1
	B-HALL		B-HALL		
	<u>-1.08</u>	T	<u>-8.164</u>	KG	
Q3	I-SET (from PSU) <u>268</u>	A	I-SET (from PSU) <u>1943</u>	A	Q2
	B-HALL		B-HALL		
	<u>0.54</u>	T	<u>18.24</u>	KG	
D	I-READ <u>1669</u>	A	I-SET (from PSU) <u>1278</u>	A	Q3
	B-NMR		B-HALL		
	<u>1.459620T</u>		<u>12.37</u>	KG	
	If momentum increased:		I-SET (from PSU) <u>1758</u>	A	D
	<input type="checkbox"/> HMS cycled?		B-NMR <u>-12.84</u>	KG	
	<input type="checkbox"/> SHMS cycled?				

HMS
 p : +0 5.320 $\theta(TV)$: 15.690
From GUI Nearest 0.005

SHMS
 p : +0 5.512 $\theta(TV)$: 10.495
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Run Number: <u>16685</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm <input type="checkbox"/> _____	PS1: <u>8</u> PS2: <u>7</u> PS3: <u>2</u> PS4: <u>2</u> PS5: <u>1</u> PS6: <u>1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>5:47</u> Stop time (RC GUI): <u>5:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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40 nk

HMS: 16154 $Q = 15.940$
 SHMS: 4980

Run Number: <u>16686</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm <input type="checkbox"/> _____	PS1: <u>1</u> PS2: <u>7</u> PS3: <u>1</u> PS4: <u>1</u> PS5: <u>1</u> PS6: <u>1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>6:02</u> Stop time (RC GUI): <u>6:12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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10 nk

HMS: 164997 $Q = 5.968$
 SHMS: 51844

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

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

Date: 22/09/01
y mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: 3-pass
Heap singles setting #3

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

E_{beam} : 6.3 GeV I_{beam} : _____ μA

Raster: On Off
 Size: 2x2

HMS
 p : +0 4.752 $\theta(\text{TV})$: 17.445
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

SHMS
 p : +0 5.4218 $\theta(\text{TV})$: 12.445
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

	HMS	SHMS	
Q1	I-SET (from PSU) <u>619.09</u> A B-HALL <u>0.8206</u> T	I-SET (from PSU) <u>1814</u> A B-HALL <u>11.45</u> KG	HB
Q2	I-SET (from PSU) <u>492.4</u> A B-HALL <u>-0.959</u> T	I-SET (from PSU) <u>1138</u> A B-HALL <u>-8.003</u> KG	Q1
Q3	I-SET (from PSU) <u>239.55</u> A B-HALL <u>0.4804</u> T	I-SET (from PSU) <u>1411</u> A B-HALL <u>17.92</u> KG	Q2
D	I-READ <u>1465</u> A B-NMR <u>1.30096</u> T	I-SET (from PSU) <u>1258</u> A B-HALL <u>1213</u> KG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>1729</u> A B-NMR <u>12.59</u> KG	D

Run Number: <u>16688</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics _____cm <input type="checkbox"/> _____cm	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>6:27</u> Stop time (RC GUI): <u>6:43</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: _____ k SHMS prescale: _____ k COIN pretrig: _____ k $e-\pi n$ evts: _____ $\Sigma e-\pi n$ evts: _____	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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10 nA (16688 was sunk due to prescales) $Q=7.555$ HMS: 115670 SHMS: 57172

Run Number: <u>16689</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics _____cm <input type="checkbox"/> _____cm	PS1: <u>-1</u> PS2: <u>6</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>/</u> PS6: <u>/</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>6:50</u> Stop time (RC GUI): <u>6:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>589</u> k SHMS prescale: <u>360</u> k COIN pretrig: <u>360</u> k $e-\pi n$ evts: _____ $\Sigma e-\pi n$ evts: _____	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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40 nA code fail on Exit $Q=15.968$ HMS: 13648 SHMS: 4194

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

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

Date: 22/09/01
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: 3-pass
Keep Singles Setting #4

E_{beam}: 6.3 GeV **I_{beam}:** _____ μ A

HMS
p: +4.256 **θ (TV):** 19.900
From GUI Nearest 0.005

SHMS
p: +5.4218 **θ (TV):** 14.345
From GUI 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: 2x2

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) <u>554</u> A B-HALL <u>0.7307</u> T	I-SET (from PSU) <u>1814</u> A B-HALL <u>11.44</u> kG	HB
Q2	I-SET (from PSU) <u>440.8</u> A B-HALL <u>-0.8524</u> T	I-SET (from PSU) <u>1138</u> A B-HALL <u>-8.003</u> kG	Q1
Q3	I-SET (from PSU) <u>214.5</u> A B-HALL <u>0.4293</u> T	I-SET (from PSU) <u>1911</u> A B-HALL <u>17.918</u> kG	Q2
D	I-READ <u>1306.71</u> A B-NMR <u>1.165120</u> T	I-SET (from PSU) <u>1258</u> A B-HALL <u>12.128</u> kG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>1729</u> A B-NMR <u>-12.592</u> kG	D

Run Number: <u>16690</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics _____ cm <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): _____ Stop time (RC GUI): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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Sum of Prescales of FF

~~HMS:~~
~~SHMS:~~

Run Number: <u>16691</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics _____ cm <input type="checkbox"/> _____	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: cer / fadc	Start time (RC GUI): <u>7:12</u> Stop time (RC GUI): <u>7:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>336</u> k $e-\pi n$ evts: _____	SHMS prescale pretrig: <u>467</u> k $\Sigma e-\pi n$ evts: _____	COIN pretrig: <u>467</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Q = 17.506 HMS: 2689
SHMS: 6121

Run Number: <u>16692</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics _____ cm <input type="checkbox"/> _____	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: cer / fadc	Start time (RC GUI): <u>7:28</u> Stop time (RC GUI): <u>7:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Coda Crash on exit Q = 11.333 HMS: 28866
SHMS: 52980

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

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

Date: 22/09/01
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

Configuration Name: 3-Pass
Heap Singlas Setting #5

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

E_{beam}: 6.3 GeV **I_{beam}:** _____ μ A

Raster: On Off
Size: 2 x 2

HMS
p: +3.76 **θ (TV):** 28.405
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

SHMS
p: +5.127 **θ (TV):** 16.295
From GUI Nearest 0.005

Collimator: **HMS:** Large Sieve **SHMS:** Collim Sieve

	HMS	SHMS	
Q1	I-SET (from PSU) <u>484</u> A B-HALL <u>0.6416</u> T	I-SET (from PSU) <u>1712</u> A B-HALL <u>10.809</u> KG	HB
Q2	I-SET (from PSU) <u>384</u> A B-HALL <u>-0.7418</u> T	I-SET (from PSU) <u>1076</u> A B-HALL <u>-7.594</u> KG	Q1
Q3	I-SET (from PSU) <u>187</u> A B-HALL <u>0.3736</u> T	I-SET (from PSU) <u>1808</u> A B-HALL <u>16.937</u> KG	Q2
D	I-READ <u>1138</u> A B-NMR <u>1.01732</u> T	I-SET (from PSU) <u>1189</u> A B-HALL <u>11.471</u> KG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		<u>1635</u> A B-NMR <u>-11.944</u> KG	

Run Number: <u>16693</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): <u>7:57</u> Stop time (RC GUI): <u>7:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e- π n evts:	SHMS prescale pretrig: k Σ e- π n evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: Junk b/c coder crash ~~HMS~~ ~~SHMS~~

Run Number: <u>16695</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm <input type="checkbox"/> _____	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>8:05</u> Stop time (RC GUI): <u>8:24</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e- π n evts:	SHMS prescale pretrig: k Σ e- π n evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 80 μ A Q = 67.194 HMS: 2643 SHMS: 4823

Run Number: <u>16696</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm <input type="checkbox"/> _____	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>8:33</u> Stop time (RC GUI): <u>8:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e- π n evts:	SHMS prescale pretrig: k Σ e- π n evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 40 μ A Heap #5 Q = 18.692 HMS: 243 SHMS: 841

Run Number: <u>16697</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm <input type="checkbox"/> _____	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>09:34</u> Stop time (RC GUI): <u>09:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e- π n evts:	SHMS prescale pretrig: k Σ e- π n evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 80 μ A Heap #6 Q = 69.58 HMS = 11290 SHMS = 2766

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

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

Date: 22/09/01
y mm dd

Initials: HL

Use a separate sheet for each configuration.

Configuration Name: 3-Pass
Heep Singles setting 6

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

E_{beam} : 6.3 GeV I_{beam} : _____ μA

Raster: On Off
Size: 2x2

HMS
 p : +/- _____ From GUI $\theta(\text{TV})$: 29.5 Nearest 0.005

changed to setting 7 before I wrote everything down

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

SHMS
 p : +/- _____ From GUI $\theta(\text{TV})$: 19.25 Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

	HMS	SHMS
Q1	I-SET (from PSU) <u>429.93</u> A B-HALL <u>0.50630</u> T	I-SET (from PSU) <u>3966.92</u> A B-HALL <u>-6.816</u> KG
Q2	I-SET (from PSU) <u>341.83</u> A B-HALL <u>-0.663</u> T	I-SET (from PSU) <u>1624.16</u> A B-HALL <u>15.226</u> KG
Q3	I-SET (from PSU) <u>166.18</u> A B-HALL <u>0.33091</u> T	I-SET (from PSU) <u>1008.4</u> A B-HALL <u>10.323</u> KG
D	I-READ <u>1010.28</u> A B-NMR <u>0.90339</u> T	I-SET (from PSU) <u>1469.08</u> A B-HALL <u>-10.717</u> KG
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	

Run Number: 16698

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

PS1: -1 PS2: 5 PS3: -1 PS4: 0 PS5: -1 PS6: -1
Mode10: 0 / fadc

Start time (RC GUI): 9:57 **Stop time (RC GUI):** 10:10

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: 40 μA Heep #6 Q = 25.61 HMS = 240 SHMS = 250

Run Number: 16699

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

PS1: -1 PS2: 4 PS3: -1 PS4: 0 PS5: -1 PS6: -1
Mode10: 0 / fadc

Start time (RC GUI): 10:47 **Stop time (RC GUI):** 11:27

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: 80 μA Many beam trips / periods of no beam Q = 129.5 HMS = 7047 SHMS = 13267

Run Number: 16700

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

PS1: -1 PS2: 4 PS3: -1 PS4: 0 PS5: -1 PS6: -1
Mode10: 0 / fadc

Start time (RC GUI): 11:35 **Stop time (RC GUI):** 11:43

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: 40 μA Heep #7 [setting not recorded] Q = 17.8 HMS = 65 SHMS = 126

Run Number: 16701

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

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

Start time (RC GUI): 11:57 **Stop time (RC GUI):** 12:36

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: 80 μA Many trips again Heep #8 Q = 132.6 HMS = 7041 SHMS = 68561

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

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

Date: 22/09/01
yy mm dd

Initials: NL

Use a separate sheet for each configuration.

Configuration Name: 3-Pass
Heep singles setting 8

Purpose:

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

E_{beam} : 6.3 GeV I_{beam} : _____ μA

Raster: On Off
Size: 2x2

HMS
 p : +/- -30.97 $\theta(TV)$: 33.95
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:		Nomin:
3H07C	X	Y
	mm	mm
Nomin:		Nomin:

SHMS
 p : +/- -4.2 $\theta(TV)$: 23.655
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

	HMS	SHMS	
Q1	I-SET (from PSU) <u>390.85</u> A B-HALL <u>0.5173</u> T	I-SET (from PSU) <u>1396.55</u> A B-HALL <u>8.790</u> KG	HB
Q2	I-SET (from PSU) <u>310.71</u> A B-HALL <u>-0.59137</u> T	I-SET (from PSU) <u>281.72</u> A B-HALL <u>-6.205</u> KG	Q1
Q3	I-SET (from PSU) <u>151.18</u> A B-HALL <u>0.30342</u> T	I-SET (from PSU) <u>1481.28</u> A B-HALL <u>13.92</u> KG	Q2
D	I-READ <u>917.7</u> A B-NMR <u>0.82121</u> T	I-SET (from PSU) <u>974.48</u> A B-HALL <u>9.42</u> KG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>1339.88</u> A B-NMR <u>-9.523</u> KG	D

Run Number: <u>16702</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm	PS1: <u>-1</u> PS2: <u>0</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>12:46</u> Stop time (RC GUI): <u>12:56</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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40 μA End of Heep singles #9. $Q = 23.6$ HMS = 96 SHMS = 832

Run Number: <u>16703</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>14:14</u> Stop time (RC GUI): <u>14:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>1606</u> k $e-\pi n$ evts: <u>Q = 134.2 mC</u>	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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20 μA start of lumi scan / Many trips [see next page for settings]

Run Number: <u>16704</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> Optics ____cm	PS1: <u>-1</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>8</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): <u>14:59</u> Stop time (RC GUI): <u>15:26</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>1009</u> k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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60 μA still a few trips $Q = 83.4 mC$

Run Number: <u>16706</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> Dummy 10cm <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> 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: <u>cer</u> / fadc	Start time (RC GUI): <u>15:29</u> Stop time (RC GUI): <u>15:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>1006</u> k $e-\pi n$ evts: _____	SHMS prescale pretrig: _____ k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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40 μA (Run # 16706 Junk/wrong PSA) Less trips $Q = 41.98 mC$