

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

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

Date: 21/11/10
yy mm dd

Initials: PJ

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
OPTICS/CALIBRATION

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

E_{beam} : 9.867 GeV I_{beam} : 5 μA

Raster: On Off
Size: 2x2

HMS
 p : +0.4 $\theta(\text{TV})$: 13.00
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.5</u> mm		<u>0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.8</u> mm		<u>-0.4</u> mm
Nomin:		Nomin:

SHMS
 p : +0.5.5 $\theta(\text{TV})$: 8.00
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <u>521.16</u> A	I-SET (from PSU) <u>1841.80</u> A	HB
	B-HALL <u>0.6909</u> T	B-HALL <u>11.638</u> KG	
Q2	I-SET (from PSU) <u>414.38</u> A	I-SET (from PSU) <u>1154.60</u> A	Q1
	B-HALL <u>-0.7986</u> T	B-HALL <u>-8.125</u> KG	
Q3	I-SET (from PSU) <u>201.61</u> A	I-SET (from PSU) <u>1939.56</u> A	Q2
	B-HALL <u>0.40716</u> T	B-HALL <u>18.155</u> KG	
D	I-READ <u>1226.73</u> A	I-SET (from PSU) <u>1276.16</u> A	Q3
	B-NMR <u>1.09509</u> T	B-HALL <u>12.295</u> KG	
	If momentum increased:		D
	<input type="checkbox"/> HMS cycled?	I-SET (from PSU) <u>1754.60</u> A	
	<input type="checkbox"/> SHMS cycled?	B-NMR <u>-12.750</u> KG	

Run Number: <u>13131</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 <u>cm</u> <input checked="" type="checkbox"/> C-Hole	PS1: <u>6</u> PS2: <u>-1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>17:36</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
-----------------------------	--	--	--------------------------------------	---	---	---	---

Beam position looked good. Raster size was 3x3

Run Number: <u>13132</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 <u>cm</u> <input checked="" type="checkbox"/> C-Hole	PS1: <u>6</u> PS2: <u>-1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>17:48</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
-----------------------------	--	--	--------------------------------------	---	---	---	---

Beam position looked good. Raster size was 2x2.

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

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

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

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

Date: 21 / 11 / 10
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
keep SINGLES
SETTING 1

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

E_{beam} : 9.867 GeV I_{beam} : 12 μ A

Raster: On Off
 Size: 2x2

HMS
 p : +0.52020 θ (TV): 23.53
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.52</u> mm		<u>0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.91</u> mm		<u>-0.26</u> mm
Nomin:		Nomin:

SHMS
 p : +0.903 θ (TV): 6.39
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <u>677.86</u> A	A	I-SET (from PSU) <u>3122.25</u> A	HB
	B-HALL <u>0.9019</u> T	T	B-HALL <u>10.663</u> KG	
Q2	I-SET (from PSU) <u>540.35</u> A	A	I-SET (from PSU) <u>1906.53</u> A	Q1
	B-HALL <u>-1.05536</u> T	T	B-HALL <u>-13.337</u> KG	
Q3	I-SET (from PSU) <u>262.13</u> A	A	I-SET (from PSU) <u>3183.76</u> A	Q2
	B-HALL <u>0.52907</u> T	T	B-HALL <u>29.810</u> KG	
D	I-READ <u>1623.15</u> A	A	I-SET (from PSU) <u>2094.88</u> A	Q3
	B-NMR <u>1.42552</u> T	T	B-HALL <u>20.046</u> KG	
	If momentum increased:		I-SET (from PSU) <u>2880.52</u> A	D
	<input type="checkbox"/> HMS cycled?		B-NMR <u>-20.924</u> KG	
	<input type="checkbox"/> SHMS cycled?			

Run Number: <u>13133</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>10</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>19:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>19</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>476</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	--	---	--------------------------------------	---	---	--	--

We got ~ 490 K events on this run. But we need 700K. So starting another run to get additional 210K events.

Run Number: <u>13134</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>10</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>20:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>10</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>249</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	--	--	--------------------------------------	---	---	--	--

Run Number: <u>13135</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>0</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>20:23</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>6</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>206</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	--	---	--------------------------------------	---	--	--	--

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: <u>cer / fadc</u>	Start 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
-------------	---	---	----------------------	--	---	---	--

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

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

Date: 21 / 11 / 10
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
heap SINGLES
SETTING 2

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

E_{beam} : 9.867 GeV I_{beam} : 40 μA

Raster: On Off
Size: 2x2

HMS
 p : +0.52020 $\theta(\text{TV})$: 23.53
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.51</u>	mm	<u>0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.9</u>	mm	<u>-0.32</u> mm
Nomin:		Nomin:

SHMS
 p : +0.903 $\theta(\text{TV})$: 7.73
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU)	A	I-SET (from PSU)	A	HB
	<u>677.86</u>		<u>3122.25</u>		
	B-HALL	T	B-HALL	KG	
	<u>0.9019</u>		<u>19.663</u>		
Q2	I-SET (from PSU)	A	I-SET (from PSU)	A	Q1
	<u>540.35</u>		<u>1906.53</u>		
	B-HALL	T	B-HALL	KG	
	<u>-1.05536</u>		<u>-13.337</u>		
Q3	I-SET (from PSU)	A	I-SET (from PSU)	A	Q2
	<u>262.13</u>		<u>3183.76</u>		
	B-HALL	T	B-HALL	KG	
	<u>0.5291</u>		<u>29.810</u>		
D	I-READ	A	I-SET (from PSU)	A	Q3
	<u>1623.15</u>		<u>2094.88</u>		
	B-NMR	T	B-HALL	KG	
	<u>1.42552</u>		<u>20.046</u>		
	If momentum increased:		I-SET (from PSU)	A	D
	<input type="checkbox"/> HMS cycled?		<u>2880.52</u>		
	<input type="checkbox"/> SHMS cycled?		B-NMR	<u>-20.924</u> KG	

Run Number: <u>13136</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>0</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>20:47</u> Stop time (RC GUI): <u>20:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>15</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>113</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>13137</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>10</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: <u>cer / fadc</u>	Start time (RC GUI): <u>21:08</u> Stop time (RC GUI): <u>21:22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>57</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>684</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

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: <u>cer / fadc</u>	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
Comments:							

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: <u>cer / fadc</u>	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
Comments:							

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

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

Date: 21/11/10
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
keep SINGLES
SETTING 3

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

E_{beam} : 9.867 GeV I_{beam} : 12 μ A

Raster: On Off
Size: 2x2

HMS
 p : +0.5202 θ (TV): 23.53
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.51</u>	mm	<u>-0.03</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.88</u>	mm	<u>-0.39</u> mm
Nomin:		Nomin:

SHMS
 p : +0.8035 θ (TV): 6.6
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU)	A	I-SET (from PSU)	A	HB
	<u>677.86</u>		<u>2747.55</u>		
	B-HALL	T	B-HALL		
	<u>0.9008</u>		<u>17.348</u>		
Q2	I-SET (from PSU)	A	I-SET (from PSU)	A	Q1
	<u>540.35</u>		<u>1696.52</u>		
	B-HALL	T	B-HALL		
	<u>-1.0548</u>		<u>-11.939</u>		
Q3	I-SET (from PSU)	A	I-SET (from PSU)	A	Q2
	<u>262.11</u>		<u>2833.08</u>		
	B-HALL	T	B-HALL		
	<u>0.5300</u>		<u>26.549</u>		
D	I-READ	A	I-SET (from PSU)	A	Q3
	<u>1623.18</u>		<u>1864.12</u>		
	B-NMR	T	B-HALL		
	<u>1.42551</u>		<u>17.930</u>		
	If momentum increased:		I-SET (from PSU)	A	D
	<input type="checkbox"/> HMS cycled?		<u>2563.12</u>		
	<input type="checkbox"/> SHMS cycled?		B-NMR	<u>-18.64</u>	

Run Number: <u>13138</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>10</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>21:46</u> Stop time (RC GUI): <u>22:04</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>28</u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: <u>68</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	--	--	---	---	--	--	--

Run Number: <u>13139</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>9</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>22:12</u> Stop time (RC GUI): <u>22:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>6</u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: <u>211</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	--	---	---	---	---	---	---

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: <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 pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	---	---	---	--	--	--	--

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: <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 pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	---	---	---	--	--	--	--

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

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

Date: 21/11/10
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
keep SINGLES

SETTING 4

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

E_{beam} : 9.867 GeV I_{beam} : 70 μ A

Raster: On Off
Size: 2x2

HMS
 p : +0.5.202 θ (TV): 23:53
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.51</u> mm		<u>0.01</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.88</u> mm		<u>-0.30</u> mm
Nomin:		Nomin:

SHMS
 p : +0.8.035 θ (TV): 9.285
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <u>677.8340</u> A B-HALL	I-SET (from PSU) <u>3123.21</u> A B-HALL	HB
	<u>0.9019</u> T	<u>19.663</u> KG	
Q2	I-SET (from PSU) <u>540.3450</u> A B-HALL	I-SET (from PSU) 1906.89 <u>2005.</u> A B-HALL	Q1
	<u>-1.05536</u> T	<u>-13.337</u> KG	
Q3	I-SET (from PSU) <u>262.1340</u> A B-HALL	I-SET (from PSU) <u>3184.71</u> A B-HALL	Q2
	<u>0.52907</u> T	<u>29.81</u> KG	
D	I-READ <u>3 18</u> <u>1628.43</u> A B-NMR	I-SET (from PSU) <u>2095.51</u> A B-HALL	Q3
	1.42552 <u>1.4518</u> T	<u>20.046</u> KG	
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		I-SET (from PSU) <u>2881.12</u> A B-NMR	
		<u>-20.924</u> KG	

Run Number: <u>13140</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>9</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>22:33</u> Stop time (RC GUI): <u>22:42</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>13</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>92</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>1</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>13141</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>9</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>22:55</u> Stop time (RC GUI): <u>23:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>80</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>728</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

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: 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
Comments:							

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: 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
Comments:							

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

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

Date: 21 / 11 / 10
yy mm dd

Initials: PD

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
keep SINGLES
SETTING # 5

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

E_{beam} : 9.867 GeV I_{beam} : 70 μA

Raster: On Off
 Size: 2x2

HMS
 p : +0.5202 $\theta(\text{TV})$: 23.53
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.49</u> mm		<u>-0.02</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.88</u> mm		<u>-0.31</u> mm
Nomin:		Nomin:

SHMS
 p : +0.8035 $\theta(\text{TV})$: 10.26
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <u>677.8340</u> A B-HALL	I-SET (from PSU) <u>3123.21</u> A B-HALL	HB
	<u>0.9019</u> T	<u>19.663</u> kG	
Q2	I-SET (from PSU) <u>540.345</u> A B-HALL	I-SET (from PSU) <u>1906.89</u> A B-HALL	Q1
	<u>-1.05536</u> T	<u>-13.337</u> kG	
Q3	I-SET (from PSU) <u>262.134</u> A B-HALL	I-SET (from PSU) <u>3184.71</u> A B-HALL	Q2
	<u>0.52907</u> T	<u>29.81</u> kG	
D	I-READ <u>1623.18</u> A B-NMR	I-SET (from PSU) <u>2095.51</u> A B-HALL	Q3
	<u>1.42552</u> T	<u>20.046</u> kG	
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		<u>2881.12</u> A B-NMR	
		<u>-20.924</u> kG	

Run Number: <u>13142</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 _____ <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>8</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>23:32</u> Stop time (RC GUI): <u>23:44</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>66</u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: <u>674</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	---	---	---	---	--	---	---

Run Number: <u>13143</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 _____ <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>8</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>23:52</u> Stop time (RC GUI): <u>23:59</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>12</u> k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: <u>90</u> k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	---	---	---	---	--	--	---

Run Number: <u>13144</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 _____ <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>8</u> PS3: <u>-1</u> PS4: <u>0</u> PS5: <u>-1</u> PS6: <u>-1</u> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>00-06</u> Stop time (RC GUI): <u>00-13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale: _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	---	---	---	--	--	--	--

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 _____ <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: _____ k pretrig: _____ $e-\pi n$ evts: _____	SHMS prescale: _____ k pretrig: _____ $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
-------------	--	---	---	--	--	--	--

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

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

Date: 21/11/11
yy mm dd

Initials: AU

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name:
Heep Singles
Setby #6

Purpose:

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

E_{beam} : 9.867 GeV I_{beam} : 70 μ A

Raster: On Off
 Size: 2x2

HMS
 p : +05.202 θ (TV): 23.53
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.49</u> mm		<u>-0.02</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.88</u> mm		<u>-0.31</u> mm
Nomin:		Nomin:

SHMS
 p : +08.035 θ (TV): 11.735
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <u>677.8340A</u> B-HALL	I-SET (from PSU) <u>312.3.21A</u> B-HALL	HB
	<u>0.09019T</u>	<u>19.063</u> KG	
Q2	I-SET (from PSU) <u>540.348A</u> B-HALL	I-SET (from PSU) <u>1906.89A</u> B-HALL	Q1
	<u>-1.05536</u>	<u>-1.3.337</u> KG	
Q3	I-SET (from PSU) A B-HALL	I-SET (from PSU) A B-HALL	Q2
	T	KG	
D	I-READ A B-NMR	I-SET (from PSU) A B-HALL	Q3
	T	KG	
	If momentum increased:		D
	<input type="checkbox"/> HMS cycled?	I-SET (from PSU) A B-NMR	
	<input type="checkbox"/> SHMS cycled?	KG	

Run Number: <u>13144</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 _____ <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>8</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>00-06</u> Stop time (RC GUI): <u>00-13</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>14</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>40</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>X</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	---	--	---	---	---	---	--

Run Number: <u>13145</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 _____ <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>7</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>00-29</u> Stop time (RC GUI): <u>00-45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>86</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>659</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u> </u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	---	--	---	---	---	--	---

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 _____ <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
-------------	--	--	---	--	---	---	--

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 _____ <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
-------------	--	--	---	--	---	---	--

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

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

Date: / /
yy mm dd

Initials:

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____

Purpose:

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

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

Raster: On Off
 Size: _____

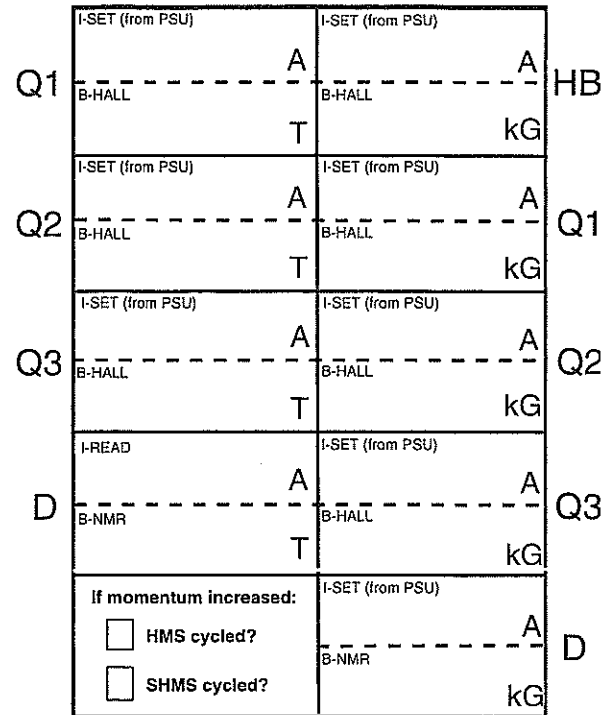
HMS
 p : +/- _____ $\theta(\text{TV})$: _____
From GUI Nearest 0.005

Beam position and angle on target:

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

SHMS
 p : +/- _____ $\theta(\text{TV})$: 13.795
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve



Run Number: <u>13146</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> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>00-55</u> Stop time (RC GUI): <u>01-06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>75</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>592</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>13147</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> <small>Mode10: cer / fadc</small>	Start time (RC GUI): <u>01-15</u> Stop time (RC GUI): <u>01-22</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>12</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>63</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

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
Comments:							

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
Comments:							

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

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

Date: 21/11/11
yy mm dd

Initials: AU

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name:
Keep Singles
setting # 8

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

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

Raster: On Off
Size: 2x2

HMS
p: +2 5.2020 (TV): 23.530
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: +2 6.538 (TV): 13.305
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU)	677.86 A	I-SET (from PSU)	220605 A	HB
	B-HALL	0.901 T	B-HALL	13.934 kG	
Q2	I-SET (from PSU)	540.34 A	I-SET (from PSU)	1326.40 A	Q1
	B-HALL	-1.056 T	B-HALL	-9.725 kG	
Q3	I-SET (from PSU)	262.11 A	I-SET (from PSU)	2305.40 A	Q2
	B-HALL	0.5277 T	B-HALL	21.576 kG	
D	I-READ	1623.18 A	I-SET (from PSU)	1516.80 A	Q3
	B-NMR	1.42550 T	B-HALL	14.582 kG	
D	If momentum increased:		I-SET (from PSU)	2085.72 A	D
	<input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		B-NMR	-15.204 kG	

Run Number: <u>13148</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>1:29</u> Stop time (RC GUI): <u>01-37</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>16</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>229</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: <u>\</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>13149</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>6</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>01 46</u> Stop time (RC GUI): <u>02:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>126</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>1226</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:	<u>Roughly ~16 min beam</u>						

Run Number: <u>13150</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>02-33</u> Stop time (RC GUI): <u>03-19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>184</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>822</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:	<u>Unstable beam</u>						

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
Comments:							

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

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

Date: 21/11/11
yy mm dd

Initials: NH

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
Keep singles setting 4

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

E_{beam} : 5.867 GeV I_{beam} : _____ μA

Raster: On Off
Size: 2x2

HMS
 p : +5.202 $\theta(\text{TV})$: 23.530
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.5</u> mm		<u>0.0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.9</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:

SHMS
 p : +6.538 $\theta(\text{TV})$: 15.655
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU)	A	I-SET (from PSU)	A	HB
	<u>677.86</u>		<u>2206.0</u>		
	B-HALL	T	B-HALL	T	
	<u>0.9004</u>		<u>13.935</u>		
Q2	I-SET (from PSU)	A	I-SET (from PSU)	A	Q1
	<u>540.34</u>		<u>1376.32</u>		
	B-HALL	T	B-HALL	T	
	<u>-1.055</u>		<u>-9.225</u>		
Q3	I-SET (from PSU)	A	I-SET (from PSU)	A	Q2
	<u>262.11</u>		<u>2305.36</u>		
	B-HALL	T	B-HALL	T	
	<u>0.5306</u>		<u>21.578</u>		
D	I-READ	A	I-SET (from PSU)	A	Q3
	<u>1623.18</u>		<u>1516.84</u>		
	B-NMR	T	B-HALL	T	
	<u>1.42549</u>		<u>14.581</u>		
	If momentum increased:		I-SET (from PSU)	A	D
	<input type="checkbox"/> HMS cycled?		<u>2085.72</u>		
	<input type="checkbox"/> SHMS cycled?		B-NMR	T	
			<u>-15.204</u>		

Run Number: <u>13151</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>4</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>03-26</u> Stop time (RC GUI): <u>03-55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>192</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>1537</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------------------------	---	--	---	---	--	---	--

Unstable beam

Run Number: <u>13152</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>4</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>04-03</u> Stop time (RC GUI): <u>04-12</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>15</u> k $e-\pi n$ evts:	SHMS prescale pretrig: <u>110</u> k $\Sigma e-\pi n$ evts:	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
------------------------------------	---	--	---	---	---	--	---

Run Number: <u>13153</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: _____ 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
------------------------------------	---	--	---	--	---	---	---

JUNK

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: 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
-----------------------------	--	--	---	--	---	---	--

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

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

Date: / /
yy mm dd

Initials:

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
Heep Singles
Setting #10

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

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

Raster: On Off
 Size: *2x2*

HMS
 p : *+5.202* $\theta(\text{TV})$: *23.530*
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<i>-0.5</i> mm		<i>0.0</i> mm
Nomin:		Nomin:
3H07C	X	Y
<i>-0.9</i> mm		<i>-0.3</i> mm
Nomin:		Nomin:

SHMS
 p : *+6.538* $\theta(\text{TV})$: *17.740*
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <i>672.86</i> A	I-SET (from PSU) <i>2206.0</i> A	HB
	B-HALL <i>0.9033</i> T	B-HALL	KG
Q2	I-SET (from PSU) <i>540.34</i> A	I-SET (from PSU) <i>1376.4</i> A	Q1
	B-HALL <i>-1.054</i> T	B-HALL	KG
Q3	I-SET (from PSU) <i>262.11</i> A	I-SET (from PSU) <i>2305.44</i> <i>1516.84</i> A	Q2
	B-HALL <i>0.5307</i> T	B-HALL	KG
D	I-READ <i>1623.18</i> A	I-SET (from PSU) <i>1516.88</i> A	Q3
	B-NMR <i>1.42549</i> T	B-HALL	KG
	If momentum increased:		I-SET (from PSU) <i>2085.64</i> A
	<input type="checkbox"/> HMS cycled?		B-NMR
	<input type="checkbox"/> SHMS cycled?		KG

Run Number: <i>13154</i>	<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: <i>-1</i> PS2: <i>2</i> PS3: <i>-1</i> PS4: <i>0</i> PS5: <i>-1</i> PS6: <i>-1</i> Mode10: cer / fadc	Start time (RC GUI): <i>4:29</i>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <i>18</i> k	SHMS prescale pretrig: <i>127</i> k	COIN pretrig: k
Stop time (RC GUI): <i>4:40</i>			<input type="checkbox"/> $e-\pi n$ evts:	<input type="checkbox"/> $\Sigma e-\pi n$ evts:	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

Run Number: <i>13155</i>	<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: <i>-1</i> PS2: <i>2</i> PS3: <i>-1</i> PS4: <i>0</i> PS5: <i>-1</i> PS6: <i>-1</i> Mode10: cer / fadc	Start time (RC GUI): <i>04-48</i>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <i>85</i> k	SHMS prescale pretrig: <i>921</i> k	COIN pretrig: k
Stop time (RC GUI): <i>05-07</i>			<input type="checkbox"/> $e-\pi n$ evts:	<input type="checkbox"/> $\Sigma e-\pi n$ evts:	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk		

Run Number: <i>13156</i>	<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: <i>-1</i> PS2: <i>2</i> PS3: <i>-1</i> PS4: <i>0</i> PS5: <i>-1</i> PS6: <i>-1</i> Mode10: cer / fadc	Start time (RC GUI): <i>05-18</i>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <i>56</i> k	SHMS prescale pretrig: <i>584</i> k	COIN pretrig: k
Stop time (RC GUI): <i>05-34</i>			<input type="checkbox"/> $e-\pi n$ evts:	<input type="checkbox"/> $\Sigma e-\pi n$ evts:	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk		

Ext'n Not data due to spectrometer rotation issue (SHMS rotation last ~30s) HMS data fine if this data is useful.

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):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k	SHMS prescale pretrig: k	COIN pretrig: k
Stop time (RC GUI):			<input type="checkbox"/> $e-\pi n$ evts:	<input type="checkbox"/> $\Sigma e-\pi n$ evts:	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk		

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

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

Date: / / Initials:
 yy mm dd

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
Keep Singles
Setting # 11

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

E_{beam} : 9.86 GeV I_{beam} : _____ μA

Raster: On Off
 Size: 2x2

HMS
 p : +5.2020 $\theta(\text{TV})$: 23.53
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.5</u>	mm	<u>0.0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.9</u>	mm	<u>0.3</u> mm
Nomin:		Nomin:

SHMS
 p : +6.5280 $\theta(\text{TV})$: 19.850
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <u>677.85</u> A B-HALL	I-SET (from PSU) <u>2205.95</u> A B-HALL	HB
	<u>0.9047</u> T	<u>13.935</u> KG	
Q2	I-SET (from PSU) <u>540.34</u> A B-HALL	I-SET (from PSU) <u>1326.36</u> A B-HALL	Q1
	<u>-1.0565</u> T	<u>-9.725</u> KG	
Q3	I-SET (from PSU) <u>262.11</u> A B-HALL	I-SET (from PSU) <u>2305.40</u> A B-HALL	Q2
	<u>0.5315</u> T	<u>21.578</u> KG	
D	I-READ <u>1623.15</u> A B-NMR	I-SET (from PSU) <u>1516.80</u> A B-HALL	Q3
	<u>1.42549</u> T	<u>14.585</u> KG	
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		D
		<u>2085.68</u> A <u>-15.204</u> KG	

Run Number: <u>13157</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 _____ <input type="checkbox"/> _____	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: cer / fadc	Start time (RC GUI): <u>05.41</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 type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>13158</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 _____ <input type="checkbox"/> _____	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>-1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u> Mode10: cer / fadc	Start time (RC GUI): <u>06.31</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>11</u> k $e-\pi n$ evts: _____	SHMS prescale pretrig: <u>95</u> k $\Sigma e-\pi n$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

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 _____ <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start 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
Comments:							

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 _____ <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start 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
Comments:							

p(e,e'π)n Run Sheet

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

Date: 21/11/11
yy mm dd

Initials: SL

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
Heep Singles
_____ setting #12 _____

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

E_{beam} : 9.86 GeV I_{beam} : _____ μA

Raster: On Off
Size: 2x2

HMS
p: +06.328 From GUI θ (TV): 19.85 Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.5</u> mm		<u>0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.9</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:

SHMS
p: +06.265 From GUI θ (TV): 19.05 Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU) <u>827.69</u> A B-HALL	I-SET (from PSU) <u>2109.50</u> A B-HALL	HB
Q2	I-SET (from PSU) <u>1,09830</u> T B-HALL	I-SET (from PSU) <u>13.383</u> kg B-HALL	Q1
Q3	I-SET (from PSU) <u>672.88</u> A B-HALL	I-SET (from PSU) <u>1317.60</u> A B-HALL	Q2
D	I-SET (from PSU) <u>-1,30426</u> T B-HALL	I-SET (from PSU) <u>-9.272</u> kg B-HALL	Q3
	I-SET (from PSU) <u>318.88</u> A B-HALL	I-SET (from PSU) <u>2209.12</u> A B-HALL	D
	I-READ <u>2134.78</u> A B-NMR	I-SET (from PSU) <u>20.680</u> kg B-HALL	
	I-SET (from PSU) <u>1,75364</u> T B-NMR	I-SET (from PSU) <u>14,012</u> kg B-HALL	
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		
		I-SET (from PSU) <u>1998.56</u> A B-NMR	D
		<u>-14.550</u> kg	

Run Number: <u>13159</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 _____ <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____ Mode10: cer / fadc	Start time (RC GUI): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
Comments: <u>Junk run, forget to save prescale</u>			Stop time (RC GUI): _____		$e-\pi n$ evts: _____	$\Sigma e-\pi n$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

Run Number: <u>13160</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 _____ <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>08:41</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
Comments:			Stop time (RC GUI): <u>08:51</u>		$e-\pi n$ evts: _____	$\Sigma e-\pi n$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

Run Number: <u>13161</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 _____ <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>09:01</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
Comments: <u>6min Good beam</u>			Stop time (RC GUI): <u>09:23</u>		$e-\pi n$ evts: _____	$\Sigma e-\pi n$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

Run Number: <u>13162</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 _____ <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>09:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: _____ k	SHMS prescale pretrig: _____ k	COIN pretrig: _____ k
Comments:			Stop time (RC GUI): <u>10:25</u>		$e-\pi n$ evts: _____	$\Sigma e-\pi n$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk

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

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

Date: / /
yy mm dd

Initials:

Use a separate sheet for each configuration.

HMS

SHMS

Configuration Name: _____
Keep coin
setting 1

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

E_{beam} : 9.86 GeV I_{beam} : 70 μA

Raster: On Off
Size: 2x2

HMS
 p : +0.53660 θ (TV): 23.05
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
<u>-0.5</u> mm		<u>0</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.9</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:

SHMS
 p : -0.54220 θ (TV): 23.05
From GUI Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Collim Sieve

Q1	I-SET (from PSU)	<u>699.38</u> A	I-SET (from PSU)	<u>1814.75</u> A	HB
	B-HALL	<u>0.4310</u> T	B-HALL	<u>-11.558</u> KG	
Q2	I-SET (from PSU)	<u>558.30</u> A	I-SET (from PSU)	<u>1382.4</u> A	Q1
	B-HALL	<u>-1.09092</u> T	B-HALL	<u>8.115</u> KG	
Q3	I-SET (from PSU)	<u>270.34</u> A	I-SET (from PSU)	<u>1911.96</u> A	Q2
	B-HALL	<u>0.54882</u> T	B-HALL	<u>-18.063</u> KG	
D	I-READ	<u>1687.32</u> A	I-SET (from PSU)	<u>1252.00</u> A	Q3
	B-NMR	<u>1.47295</u> T	B-HALL	<u>-12.166</u> KG	
D	If momentum increased:		I-SET (from PSU)	<u>1729.84</u> A	D
	<input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?		B-NMR	<u>72.593</u> KG	

Run Number: <u>13163</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 _____ <input type="checkbox"/> _____	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>csr / fadc</u>	Start time (RC GUI): <u>11:28</u> Stop time (RC GUI): <u>11:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" 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
-----------------------------	---	--	---	--	--	--	--

FADL mode 10 run!

Run Number: <u>13164</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 _____ <input type="checkbox"/> _____	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>csr / fadc</u>	Start time (RC GUI): <u>11:35</u> Stop time (RC GUI): <u>11:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" 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
-----------------------------	---	--	---	--	--	--	--

Run Number: <u>13165</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 _____ <input type="checkbox"/> _____	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>csr / fadc</u>	Start time (RC GUI): <u>11:50</u> Stop time (RC GUI): <u>12:50</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 type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	---	--	---	---	--	--	--

Run Number: <u>13166</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 _____ <input type="checkbox"/> _____	PS1: <u>7</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>0</u> PS6: <u>-1</u> Mode10: <u>csr / fadc</u>	Start time (RC GUI): <u>12:50</u> Stop time (RC GUI): <u>13:58</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 type="checkbox"/> Data ok <input type="checkbox"/> Junk
-----------------------------	---	--	---	---	--	--	--

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

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

Date: ___/___/___
yy mm dd

Initials: _____

Continuation of Configuration:

Keep coin

Setting 1

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

Run Number: 13167	<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>7</u> PS2: <u>-1</u> PS3: <u>-1</u> PS4: <u>1</u> PS5: <u>0</u> PS6: <u>-7</u> Mode10: <u>cer</u> / fadc	Start time (RC GUI): 13:59 Stop time (RC GUI): 14:30	<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 type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 13168	<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>7</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): 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
Comments: <i>prescale when at beam trip, so the psi went to 0</i>							

Run Number: 13169	<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>5</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): 14:38 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
Comments:							

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
Comments:							

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
Comments:							

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
Comments:							