

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

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

Date: 22/8/18
yy mm dd

Initials: WH

Use a separate sheet for each configuration.

Configuration Name: _____

Heep-Check 1

E_{beam} : 6.399 GeV

I_{beam} : 80 μA

Purpose:

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

Raster: ☒ On ☐ Off

Size: _____

Beam position and angle on target:

3H07A	X	Y
<u>-0.09</u> mm	<u>-0.3</u> mm	
Nomin:	Nomin:	
3H07C	X	Y
<u>-0.68</u> mm	<u>-0.49</u> mm	<u>-0.26</u> mm
Nomin:	Nomin:	

HMS

SHMS

Q1	I-SET (from PSU) <u>619.132</u> A B-HALL <u>0.81890</u> T	I-SET (from PSU) <u>-5.048</u> A B-HALL <u>797.897</u> kG	HB
Q2	I-SET (from PSU) <u>492.475</u> A B-HALL <u>-95901</u> T	I-SET (from PSU) <u>506.55</u> A B-HALL <u>3.621</u> kG	Q1
Q3	I-SET (from PSU) <u>239.436</u> A B-HALL <u>0.47940</u> T	I-SET (from PSU) <u>850.668</u> A B-HALL <u>-8.025</u> kG	Q2
D	I-READ <u>1464.2</u> A B-NMR <u>1.30096</u> T	I-SET (from PSU) <u>559.732</u> A B-HALL <u>-5.480</u> kG	Q3
	If momentum increased: ☒ HMS cycled? ☒ SHMS cycled?	I-SET (from PSU) <u>769.574</u> A B-NMR <u>5.551</u> kG	D

Run Number:

16277

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

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

Start time (RC GUI):

7:08

Stop time (RC GUI):

7:20

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: k

e- π evts: ep
86051

SHMS prescale
pretrig: k

Σ e- π evts:

COIN pretrig: k

☒ Data ok

☐ Junk

Comments:

80 nA

Run Number:

16278

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

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

Start time (RC GUI):

7:20

Stop time (RC GUI):

7:23

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: k

e- π evts: ep
18 18734

SHMS prescale
pretrig: k

Σ e- π evts:

COIN pretrig: k

☒ Data ok

☐ Junk

Comments:

80 nA

Fademode 10

Run Number:

16279

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

PS1: 5
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / fad

Start time (RC GUI):

7:32

Stop time (RC GUI):

7:38

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale
pretrig: k

e- π evts:

772

SHMS prescale
pretrig: k

Σ e- π evts:

COIN pretrig: k

☐ Data ok

☐ Junk

Comments:

40 nA

Run Number:

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

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

Start time (RC GUI):

Stop time (RC GUI):

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS prescale
pretrig: k

e- π evts:

SHMS prescale
pretrig: k

Σ e- π evts:

COIN pretrig: k

☐ Data ok

☐ Junk

Comments:

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

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Date: 22/8/18
yy mm dd

Initials: WH

Use a separate sheet for each configuration.

Configuration Name: _____

HEEP CHECK 2

HeepCoin

E_{beam}: 6.399 GeV

I_{beam}: _____ μ A

Purpose:

☐ Production

☐ Test (e.g. DAQ, Detector)

☐ Optics (SHMS / HMS)

☐ Other: HeepCheck

Raster: ☒ On ☐ Off

Size: _____

Beam position and angle on target:

3H07A	X	Y
<u>-0.09</u> mm		<u>-0.3</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.68</u> mm		<u>-0.49</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>572.088</u> A B-HALL	I-SET (from PSU) <u>924.462</u> A B-HALL	HB
	<u>0.7583</u> T	<u>-5.872</u> kG	
Q2	I-SET (from PSU) <u>454.911</u> A B-HALL	I-SET (from PSU) <u>586.235</u> A B-HALL	Q1
	<u>0.88383</u> T	<u>4.187</u> kG	
Q3	I-SET (from PSU) <u>221.226</u> A B-HALL	I-SET (from PSU) <u>984.687</u> A B-HALL	Q2
	<u>0.44276</u> T	<u>-9.33</u> kG	
D	I-READ <u>1348.0</u> A B-NMR	I-SET (from PSU) <u>647.915</u> A B-HALL	Q3
	<u>1.20212</u> T	<u>-6.309</u> kG	
	If momentum increased:		D
	☒ HMS cycled?		
	☒ SHMS cycled?		
		<u>890.817</u> A B-NMR	
		<u>6.444</u> kG	

Run Number:

16280

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

PS1: 5
PS2: -1
PS3: -1
PS4: 4
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

7:59

Stop time (RC GUI):

8:08

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

HMS prescale
pretrig: 12 k

$e-\pi n$ evts:
398

SHMS prescale
pretrig: 26 k

$\Sigma e-\pi n$ evts:

COIN pretrig: 6 k

- ☒ Data ok
☐ Junk

Comments:

Run Number:

16281

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

PS1: 6
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

08:18

Stop time (RC GUI):

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

HMS prescale
pretrig: _____ k

$e-\pi n$ evts:

SHMS prescale
pretrig: _____ k

$\Sigma e-\pi n$ evts:

COIN pretrig: _____ k

- ☐ Data ok
☐ Junk

Comments:

FADC10

Run Number:

16282

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

PS1: 6
PS2: -1
PS3: -1
PS4: 5
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

08:24

Stop time (RC GUI):

09:34

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

HMS prescale
pretrig: 79 k

$e-\pi n$ evts:

54668

SHMS prescale
pretrig: 80 k

$\Sigma e-\pi n$ evts:

COIN pretrig: 120 k

- ☒ Data ok
☐ Junk

Comments:

Forgot to stop the run. Needs to be trimmed.

Run Number:

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

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

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: _____ k

$e-\pi n$ evts:

SHMS prescale
pretrig: _____ k

$\Sigma e-\pi n$ evts:

COIN pretrig: _____ k

- ☐ Data ok
☐ Junk

Comments:

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

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Use a separate sheet for each configuration.

Date: August 18, 2022
yy mm dd

Initials: P.S.

Configuration Name: _____

Heep Check 3

E_{beam} : 6.373 GeV

I_{beam} : 80 μA

Purpose:

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

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>485.23</u> A B-HALL	A	I-SET (from PSU) <u>1156.9</u> A B-HALL	A	HB
		T		kG	
Q2	I-SET (from PSU) <u>386.11</u> A B-HALL	A	I-SET (from PSU) <u>733.62</u> A B-HALL	A	Q1
		T		kG	
Q3	I-SET (from PSU) <u>187.30</u> A B-HALL	A	I-SET (from PSU) <u>1231.5</u> A B-HALL	A	Q2
		T		kG	
D	I-READ <u>1140.8</u> A B-NMR	A	I-SET (from PSU) <u>817.10</u> A B-HALL	A	Q3
		T		kG	
	If momentum increased: ☐ HMS cycled? ☒ SHMS cycled?		I-SET (from PSU) <u>1113.4</u> A B-NMR		D
				kG	

Run Number:

16283

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

PS1: 6
PS2: -1
PS3: -1
PS4: 2
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

09:40

Stop time (RC GUI):

09:43

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

HMS prescale
pretrig: k

$e-\pi n$ evts:

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN
pretrig: k

- ☐ Data ok
☐ Junk

Comments:

FADC

Run Number:

16284

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

PS1: 6
PS2: -1
PS3: -1
PS4: 2
PS5: 0
PS6: -1
Mode10: cer / fadc

Start time (RC GUI):

09:43

Stop time (RC GUI):

10:05

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

HMS prescale
pretrig: 91 k

$e-\pi n$ evts:

16657

SHMS prescale
pretrig: 109 k

$\Sigma e-\pi n$ evts:

COIN
pretrig: 39 k

- ☒ Data ok
☐ Junk

Comments:

Run Number:

16285

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

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

Start time (RC GUI):

Stop time (RC GUI):

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

HMS prescale
pretrig: k

$e-\pi n$ evts:

SHMS prescale
pretrig: k

$\Sigma e-\pi n$ evts:

COIN
pretrig: k

- ☐ Data ok
☐ Junk

Comments:

JUNK. PRESCALES NOT COUNTING

Run Number:

16286

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

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

Start time (RC GUI):

10:15

Stop time (RC GUI):

10:27

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

HMS prescale
pretrig: 32 k

$e-\pi n$ evts:

138

SHMS prescale
pretrig: 59 k

$\Sigma e-\pi n$ evts:

COIN
pretrig: 6 k

- ☒ Data ok
☐ Junk

Comments: