

# $p(e,e'K)\Lambda$ Run Sheet

can be found at [lichen.phys.uregina.ca/~huberg/kaon/](http://lichen.phys.uregina.ca/~huberg/kaon/)

Date: 19 / 03 / 23  
yy mm dd

Initials: ZP

Use a separate sheet for each configuration.

Configuration Name: \_\_\_\_\_

Elastic - Single

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other: \_\_\_\_\_

$E_{\text{beam}}$ : 6.18 GeV

$I_{\text{beam}}$ : 24  $\mu\text{A}$

Raster: ☒ On ☐ Off

Size: 2x2 mm

Beam position and angle on target:

3H07A	X	Y
-0.3 mm	-0.2 mm	
Nomin:	Nomin:	
3H07C	X	Y
-1.0 mm	0.2 mm	
Nomin:	Nomin:	

HMS

SHMS

	I-SET (from PSU)	I-SET (from PSU)	
	A	A	
Q1	B-HALL	B-HALL	HB
	kG	kG	
	I-SET (from PSU)	I-SET (from PSU)	
	A	A	
Q2	B-HALL	B-HALL	Q1
	kG	kG	
	I-SET (from PSU)	I-SET (from PSU)	
	A	A	
Q3	B-HALL	B-HALL	Q2
	kG	kG	
	I-READ	I-SET (from PSU)	
	A	A	
D	B-NMR	B-HALL	Q3
	kG	kG	
	If momentum increased:	I-SET (from PSU)	
	<input type="checkbox"/> HMS cycled?	A	
	<input type="checkbox"/> SHMS cycled?	B-NMR	D
		kG	

Run Number:

7848

- ☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐

PS1: -1  
PS2: 5  
PS3: 2  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

06:15

Stop time (from RC):

06:53

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☒ Data ok

☐ Junk

Comments:

$\sim 24 \mu\text{A}$

Run Number:

7849

- ☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐

PS1: -1  
PS2: 5  
PS3: 2  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

06:54

Stop time (from RC):

07:08

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☒ Data ok

☐ Junk

Comments:

$\sim 50 \mu\text{A}$  & !!! took a run @ 50  $\mu\text{A}$  to compare w/ run 7848 which was mostly @ 24  $\mu\text{A}$ .  
@ end of run HMS magnetic field was loaded to alarm handler & caused alarm.

Run Number:

- ☐ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☐ Data ok

☐ Junk

Comments:

Run Number:

- ☐ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☐ Data ok

☐ Junk

Comments:

# $p(e,e'K)\Lambda$ Run Sheet

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Date: 19/03/23  
yy mm dd

Initials: ZP

Use a separate sheet for each configuration.

Configuration Name: \_\_\_\_\_

Elastic Singles  
Setting #12

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other: \_\_\_\_\_

E<sub>beam</sub>: 6.18 GeV

I<sub>beam</sub>: 5070  $\mu$ A

Raster: ☒ On ☐ Off

Size: \_\_\_\_\_

HMS

p: +/- -3.709  
From GUI

$\theta$ (TV): 26.005  
Nearest 0.005

Beam position and angle  
on target:

3H07A	X	Y
-0.3	mm	-0.2
Nomin:		Nomin:
3H07C	X	Y
-1.0	mm	0.2
Nomin:		Nomin:

SHMS

p: +/- -3.709  
From GUI

$\theta$ (TV): 26.005  
Nearest 0.005

Collimator:

HMS: Large ☒  
Sieve ☐

SHMS: Large ☒  
Sieve ☐

HMS

SHMS

Q1	I-SET (from PSU) 484.13 A B-HALL 0.473 kG	I-SET (from PSU) 1231.3149 A B-HALL 7.782 kG	HB
Q2	I-SET (from PSU) 386.46 A B-HALL -0.736 kG	I-SET (from PSU) 778.778 A B-HALL -5.855 kG	Q1
Q3	I-SET (from PSU) 188.04 A B-HALL 0.375 kG	I-SET (from PSU) 1308.1 A B-HALL 12.292 kG	Q2
D	I-READ 1135.8 A B-NMR 1.015377 kG	I-SET (from PSU) 860.7150 A B-HALL 8.356 kG	Q3
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	<input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled? 1256.78 A B-NMR -9.130 kG	P10 D

Run Number:

7850

☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: -1  
PS2: 5  
PS3: 2  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

07:46

Stop time (from RC):

08:04

☒ Settings  
Verified?

☒ HV OK?

☒ 50k OK?

HMS  
prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS  
prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☒ Data ok

☒ Junk

Comments:

HMS dipole field off  
PS too high q ratel only ~100 Hz Prescaled

Run Number:

7851

☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: -1  
PS2: 1  
PS3: 6  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

08:14

Stop time (from RC):

08:28

☒ Settings  
Verified?

☒ HV OK?

☐ 50k OK?

HMS  
prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS  
prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☒ Data ok

☒ Junk

Comments:

SHMS Q1/dipole set incorrectly

Run Number:

7852

☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: -1  
PS2: 1  
PS3: 6  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

08:33

Stop time (from RC):

08:50

☒ Settings  
Verified?

☒ HV OK?

☒ 50k OK?

HMS  
prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS  
prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☒ Data ok

☐ Junk

Comments:

Run Number:

7853

☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: -1  
PS2: 1  
PS3: 6  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

08:51

Stop time (from RC):

09:07

☒ Settings  
Verified?

☒ HV OK?

☒ 50k OK?

HMS  
prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS  
prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☒ Data ok

☐ Junk

Comments:

# $p(e,e'K)\Lambda$ Run Sheet

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Date: 19 / 3 / 23  
yy mm dd

Initials: SK

## Continuation of Configuration:

Heep Singles #2

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

Run Number: <u>7854</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: <u>-1</u> PS2: <u>1</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>09:20</u> Stop time (from RC): <u>09:38</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretig: k e-K $\Lambda$ evts:	SHMS prescale pretig: k $\Sigma$ e-K $\Lambda$ evts:	COIN pretig: 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"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):  Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretig: k e-K $\Lambda$ evts:	SHMS prescale pretig: k $\Sigma$ e-K $\Lambda$ evts:	COIN pretig: 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"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):  Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretig: k e-K $\Lambda$ evts:	SHMS prescale pretig: k $\Sigma$ e-K $\Lambda$ evts:	COIN pretig: 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"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):  Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretig: k e-K $\Lambda$ evts:	SHMS prescale pretig: k $\Sigma$ e-K $\Lambda$ evts:	COIN pretig: 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"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):  Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretig: k e-K $\Lambda$ evts:	SHMS prescale pretig: k $\Sigma$ e-K $\Lambda$ evts:	COIN pretig: 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"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l. <input type="checkbox"/> _____	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC):  Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretig: k e-K $\Lambda$ evts:	SHMS prescale pretig: k $\Sigma$ e-K $\Lambda$ evts:	COIN pretig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							



# $p(e,e'K)\Lambda$ Run Sheet

can be found at [lichen.phys.uregina.ca/~huberg/kaon/](http://lichen.phys.uregina.ca/~huberg/kaon/)

Date: 14 / 3 / 23  
yy mm dd

Initials: SK

Use a separate sheet for each configuration.

Configuration Name: \_\_\_\_\_

Elastic Singles #3

$E_{\text{beam}}$ : 6.14 GeV

$I_{\text{beam}}$ : 70  $\mu\text{A}$

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other: \_\_\_\_\_

Raster: ☒ On ☐ Off

Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-0.311</u> mm		<u>-0.203</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-1.027</u> mm		<u>0.2</u> mm
Nomin:		Nomin:

HMS

SHMS

Q1	I-SET (from PSU) <u>454.8020</u> A	I-SET (from PSU) <u>1158.18</u> A	HB
	B-HALL <u>0.444</u> kG	B-HALL <u>7325</u> kG	
Q2	I-SET (from PSU) <u>361.6148</u> A	I-SET (from PSU) <u>733.004</u> A	Q1
	B-HALL <u>-0.691</u> kG	B-HALL <u>-5.160</u> kG	
Q3	I-SET (from PSU) <u>175.8847</u> A	I-SET (from PSU) <u>1231.21</u> A	Q2
	B-HALL <u>0.352</u> kG	B-HALL <u>11.559</u> kG	
D	I-READ <u>1068.4</u> A	I-SET (from PSU) <u>810.126</u> A	Q3
	B-NMR <u>-0.9567</u> kG	B-HALL <u>7.862</u> kG	
If momentum increased:		I-SET (from PSU) <u>1113.84</u> A	D
<input checked="" type="checkbox"/> HMS cycled?		B-NMR <u>-8.143</u> kG	
<input checked="" type="checkbox"/> SHMS cycled?			

Run Number:

7855

- ☐ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

Stop time (from RC):

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

HMS prescale  
pretrig: \_\_\_\_\_ k

$e-K\Lambda$  evts: \_\_\_\_\_

SHMS prescale  
pretrig: \_\_\_\_\_ k

$\Sigma e-K\Lambda$  evts: \_\_\_\_\_

COIN pretrig: \_\_\_\_\_ k

☐ Data ok

☒ Junk

Comments:

Junk

Run Number:

7856

- ☐ LH2 10cm  
☐ LD2 10cm  
☒ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: -1  
PS2: 0  
PS3: 0  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

Stop time (from RC):

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

HMS prescale  
pretrig: \_\_\_\_\_ k

$e-K\Lambda$  evts: \_\_\_\_\_

SHMS prescale  
pretrig: \_\_\_\_\_ k

$\Sigma e-K\Lambda$  evts: \_\_\_\_\_

COIN pretrig: \_\_\_\_\_ k

☒ Data ok

☐ Junk

Comments:

Run Number:

7857

- ☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: -1  
PS2: 0  
PS3: 0  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

Stop time (from RC):

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

HMS prescale  
pretrig: \_\_\_\_\_ k

$e-K\Lambda$  evts: \_\_\_\_\_

SHMS prescale  
pretrig: \_\_\_\_\_ k

$\Sigma e-K\Lambda$  evts: \_\_\_\_\_

COIN pretrig: \_\_\_\_\_ k

☒ Data ok

☐ Junk

Comments:

Run Number:

7858

- ☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: -1  
PS2: 0  
PS3: 0  
PS4: -1  
PS5: -1  
PS6: -1

Start time (from RC):

Stop time (from RC):

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

HMS prescale  
pretrig: \_\_\_\_\_ k

$e-K\Lambda$  evts: \_\_\_\_\_

SHMS prescale  
pretrig: \_\_\_\_\_ k

$\Sigma e-K\Lambda$  evts: \_\_\_\_\_

COIN pretrig: \_\_\_\_\_ k

☒ Data ok

☐ Junk

Comments:

# $p(e,e'K)\Lambda$ Run Sheet

can be found at [lichen.phys.uregina.ca/~huberg/kaon/](http://lichen.phys.uregina.ca/~huberg/kaon/)

Use a separate sheet for each configuration.

Date: 19 / 3 / 23  
yy mm dd

Initials: SK

HMS

SHMS

Configuration Name: Heep #4

Purpose:

- ☒ Production  
☐ Test  
☐ Optics  
☐ Other: \_\_\_\_\_

Raster: ☒ On ☐ Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-0.29</u> mm		<u>-0.45</u> mm
Nomin:		
3H07C	X	Y
<u>-1.033</u> mm		<u>0.231</u> mm
Nomin:		

Q1	I-SET (from PSU) <u>427.8263</u> A B-HALL <u>0.416</u> kG	I-SET (from PSU) <u>1088.84</u> A B-HALL <u>6.959</u> kG	HB
Q2	I-SET (from PSU) <u>340.1566</u> A B-HALL <u>-0.648</u> kG	I-SET (from PSU) <u>681.541</u> A B-HALL <u>-4.877</u> kG	Q1
Q3	I-SET (from PSU) <u>165.4806</u> A B-HALL <u>0.331</u> kG	I-SET (from PSU) <u>1158.21</u> A B-HALL <u>10.906</u> kG	Q2
D	I-READ <u>1004.79</u> A B-NMR <u>0.89889</u> kG	I-SET (from PSU) <u>762.089</u> A B-HALL <u>7.367</u> kG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	<u>1047.79</u> A B-NMR <u>-7.652</u> kG	D

Run Number: <u>7859</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>12:48</u> Stop time (from RC): <u>13:21</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>e-K<math>\Lambda</math></u> evts:	SHMS prescale pretrig: k <u><math>\Sigma</math> e-K<math>\Lambda</math></u> evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>7860</u>	<input checked="" type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>0</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>13:22</u> Stop time (from RC): <u>13:55</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>e-K<math>\Lambda</math></u> evts:	SHMS prescale pretrig: k <u><math>\Sigma</math> e-K<math>\Lambda</math></u> evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>7861</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input checked="" type="checkbox"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>0</u> PS2: <u>0</u> PS3: <u>0</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:03</u> Stop time (from RC): <u>14:19</u>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>e-K<math>\Lambda</math></u> evts:	SHMS prescale pretrig: k <u><math>\Sigma</math> e-K<math>\Lambda</math></u> 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"/> MT thick 10cm <input type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: k <u>e-K<math>\Lambda</math></u> evts:	SHMS prescale pretrig: k <u><math>\Sigma</math> e-K<math>\Lambda</math></u> evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							



# p(e,e'K) $\Lambda$ Run Sheet

can be found at [lichen.phys.uregina.ca/~huberg/kaon/](http://lichen.phys.uregina.ca/~huberg/kaon/)

Use a separate sheet for each configuration.

Date: 19/3/23  
yy mm dd

Initials: VIL

Configuration Name: \_\_\_\_\_

Heap-check coin

Purpose:

- ☒ Production  
☐ Test  
☐ Optics  
☐ Other: \_\_\_\_\_

E<sub>beam</sub>: 6.19 GeV

I<sub>beam</sub>: 70  $\mu$ A

Raster: ☒ On ☐ Off

Size: 2x2 mm

HMS

p: +/- 3.571  $\theta$ (TV): 27.27  
From GUI Nearest 0.005

SHMS

p: +/- 3.486  $\theta$ (TV): 28.56  
From GUI Nearest 0.005

Beam position and angle on target:

3H07A	X	Y
-0.24 mm		-0.147 mm
Nomin:		Nomin:
3H07C	X	Y
84 mm		0.22 mm
Nomin:		Nomin:

Collimator:

HMS: Large ☒ Sieve ☐

SHMS: Large ☐ Sieve ☐

Run Number:

7866

- ☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: 0  
PS2: -1  
PS3: 0  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

17:09

Stop time (from RC):

17:39

☒ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS 403  
prescale 243 k  
pretrig: 243

e-K $\Lambda$  evts:

SHMS 4680  
prescale 4358 k  
pretrig: 4358

$\Sigma$  e-K $\Lambda$  evts:

COIN 1695  
pretrig: 56 k

☒ Data ok

☐ Junk

Comments:

70  $\mu$ A

Heap Events = 19310 (see hcbg 3671798)

Run Number:

7867

- ☒ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: 0  
PS2: -1  
PS3: 0  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

17:40

Stop time (from RC):

18:49

☒ Settings Verified?

☐ HV OK?

☒ 50k OK?

HMS 833  
prescale 91 k  
pretrig: 91

e-K $\Lambda$  evts:

SHMS 9643  
prescale 273 k  
pretrig: 273

$\Sigma$  e-K $\Lambda$  evts:

COIN 121  
pretrig: 121 k

☒ Data ok

☐ Junk

Comments:

70  $\mu$ A

Run Number:

7868

- ☐ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: 0  
PS2: -1  
PS3: 0  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

18:58

Stop time (from RC):

19:14

☐ Settings Verified?

☒ HV OK?

☒ 50k OK?

HMS 52  
prescale 743 k  
pretrig: 743

e-K $\Lambda$  evts:

SHMS 819  
prescale 14358 k  
pretrig: 14358

$\Sigma$  e-K $\Lambda$  evts:

COIN 9  
pretrig: 1645 k

☒ Data ok

☐ Junk

Comments:

40  $\mu$ A Dummy target ( $\pm$  5cm)

Run Number:

7869

- ☐ LH2 10cm  
☐ LD2 10cm  
☐ MT thick 10cm  
☐ C 1.5% r.l.  
☐ C 0.5% r.l.  
☐ \_\_\_\_\_

PS1: \_\_\_\_\_  
PS2: \_\_\_\_\_  
PS3: \_\_\_\_\_  
PS4: \_\_\_\_\_  
PS5: \_\_\_\_\_  
PS6: \_\_\_\_\_

Start time (from RC):

\_\_\_\_\_

Stop time (from RC):

\_\_\_\_\_

☐ Settings Verified?

☐ HV OK?

☐ 50k OK?

HMS  
prescale  
pretrig: k

e-K $\Lambda$  evts:

SHMS  
prescale  
pretrig: k

$\Sigma$  e-K $\Lambda$  evts:

COIN  
pretrig: k

☐ Data ok

☒ Junk

Comments:

Junk.