

# p(e,e'K)Λ Run Sheet

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

Date: 19/3/27  
yy mm dd

Initials: 273

Use a separate sheet for each configuration.

**Configuration Name:** \_\_\_\_\_  
Summary Scans

**E<sub>beam</sub>:** 8.167 GeV    **I<sub>beam</sub>:** — μA

**HMS**  
**p:** +/- -5.7450 θ(TV): 12.97 (13.00)  
From GUI    Nearest 0.005

**SHMS**  
**p:** +/- -5.7450 θ(TV): 9.51 (9.50)  
From GUI    Nearest 0.005

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

**Purpose:**  
 Production  
 Test  
 Optics  
 Other: Juni

**Raster:**  On  Off  
**Size:** 2x2mm

**Beam position and angle on target:**

3H07A	X	Y
-0.3	mm	-0.2
Nomin:		Nomin:
3H07C	X	Y
-1.0	mm	+0.5
Nomin:		Nomin:

	HMS	SHMS	
Q1	I-SET (from PSU) <u>749.293</u> A B-HALL <u>0.729</u> KG	I-SET (from PSU) <u>1927.62</u> A B-HALL <u>12.182</u> KG	HB
Q2	I-SET (from PSU) <u>6.01.2767</u> A B-HALL <u>-1.172</u> KG	I-SET (from PSU) <u>1206.280</u> A B-HALL <u>-8.510</u> KG	Q1
Q3	I-SET (from PSU) <u>289.1746</u> A B-HALL <u>0.581</u> KG	I-SET (from PSU) <u>2026.16</u> A B-HALL <u>18.978</u> KG	Q2
D	I-READ <u>1852.300</u> A B-NMR <u>1.58299</u> KG	I-SET (from PSU) <u>1333.899</u> A B-HALL <u>12871</u> KG	Q3
	If momentum increased: <input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>1333.000</u> A B-NMR <u>-13.297</u> KG	D

**Run Number:** 7948

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

PS1: -1    PS2: 9    PS3: 6    PS4: -1    PS5: -1    PS6: -1

**Start time (from RC):** 21:12    **Stop time (from RC):** 21:23

Settings Verified?     HV OK?     50k OK?

**HMS prescale pretrig:** 683 k    **SHMS prescale pretrig:** 500 k    **COIN pretrig:** 468 k

**e-KΛ evts:** —    **Σ e-KΛ evts:** —     Data ok     Junk

NOVA 65 mA

**Run Number:** 7949

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

PS1: -1    PS2: 9    PS3: 5    PS4: -1    PS5: -1    PS6: -1

**Start time (from RC):** 21:25    **Stop time (from RC):** 21:37

Settings Verified?     HV OK?     50k OK?

**HMS prescale pretrig:** 683 k    **SHMS prescale pretrig:** 500 k    **COIN pretrig:** 468 k

**e-KΛ evts:** —    **Σ e-KΛ evts:** —     Data ok     Junk

50 mA

**Run Number:** 7950

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

PS1: -1    PS2: 8    PS3: 5    PS4: -1    PS5: -1    PS6: -1

**Start time (from RC):** 21:38    **Stop time (from RC):** 21:50

Settings Verified?     HV OK?     50k OK?

**HMS prescale pretrig:** 569 k    **SHMS prescale pretrig:** 941 k    **COIN pretrig:** 789 k

**e-KΛ evts:** —    **Σ e-KΛ evts:** —     Data ok     Junk

30 mA

**Run Number:** 7951

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

PS1: -1    PS2: 7    PS3: 4    PS4: -1    PS5: -1    PS6: -1

**Start time (from RC):** 21:51    **Stop time (from RC):** 22:03

Settings Verified?     HV OK?     50k OK?

**HMS prescale pretrig:** 555 k    **SHMS prescale pretrig:** 4407 k    **COIN pretrig:** 724 k

**e-KΛ evts:** —    **Σ e-KΛ evts:** —     Data ok     Junk

15 mA

# 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 / 3 / 27  
yy mm dd

Initials: RTJ

## Continuation of Configuration:

Luminosity Scans

[-5.7450 (3HMS/HMS),  $\theta = 12.97^\circ_{H.S.}$ ]

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

Run Number: <u>7952</u>	<input type="checkbox"/> LH2 10cm <input type="checkbox"/> LD2 10cm <input type="checkbox"/> MT thick 10cm <input checked="" type="checkbox"/> C 1.5% r.l. <input type="checkbox"/> C 0.5% r.l.	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>2</u> PS4: <u>-1</u> PS5: <u>4</u> PS6: <u>4</u>	Start time (from RC): <u>22:21</u> Stop time (from RC): <u>22:16</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>243</u> k e-K $\Lambda$ evts: <u>—</u>	SHMS prescale pretrig: <u>1546</u> k $\Sigma$ e-K $\Lambda$ evts: <u>—</u>	COIN pretrig: <u>728</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 5 mA

Run Number: <u>7953</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>—</u> PS2: <u>—</u> PS3: <u>—</u> PS4: <u>—</u> PS5: <u>—</u> PS6: <u>—</u>	Start time (from RC): <u>22:29</u> Stop time (from RC): <u>—</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>—</u> k e-K $\Lambda$ evts: <u>—</u>	SHMS prescale pretrig: <u>—</u> k $\Sigma$ e-K $\Lambda$ evts: <u>—</u>	COIN pretrig: <u>—</u> k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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Comments: 70 mA Junk, Prescale didn't update

Run Number: <u>7954</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>10</u> PS3: <u>7</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:31</u> Stop time (from RC): <u>22:45</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>—</u> k e-K $\Lambda$ evts: <u>—</u>	SHMS prescale pretrig: <u>—</u> k $\Sigma$ e-K $\Lambda$ evts: <u>—</u>	COIN pretrig: <u>—</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 70 mA

Run Number: <u>7955</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>—</u> PS3: <u>—</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:32</u> Stop time (from RC): <u>22:45</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>—</u> k e-K $\Lambda$ evts: <u>—</u>	SHMS prescale pretrig: <u>—</u> k $\Sigma$ e-K $\Lambda$ evts: <u>—</u>	COIN pretrig: <u>—</u> k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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Comments: 50 mA Junk Prescale

Run Number: <u>7956</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>9</u> PS3: <u>-6</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>22:47</u> Stop time (from RC): <u>22:54</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>401</u> k e-K $\Lambda$ evts: <u>—</u>	SHMS prescale pretrig: <u>12707</u> k $\Sigma$ e-K $\Lambda$ evts: <u>—</u>	COIN pretrig: <u>885</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 50 mA Stopped early due to lacking beam

Run Number: <u>7957</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>4</u> PS2: <u>9</u> PS3: <u>6</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>1</u>	Start time (from RC): <u>22:57</u> Stop time (from RC): <u>23:05</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: <u>489</u> k e-K $\Lambda$ evts: <u>—</u>	SHMS prescale pretrig: <u>15568</u> k $\Sigma$ e-K $\Lambda$ evts: <u>—</u>	COIN pretrig: <u>997</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: 56 mA

# p(e,e'K)Λ Run Sheet

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

Date: <sup>19</sup> 11 / 3 / 27  
yy mm dd

Initials: RLT

## Continuation of Configuration:

*Luminosity scans*

$$P = -5.7450 \text{ (SMM/MM)} \oplus = 12.92 / 0.51$$

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

Run Number: <b>7958</b>	<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>7</u> PS2: <u>4</u> PS3: <u>6</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:07</u> Stop time (from RC): <u>23:20</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-KΛ evts: <u>—</u>	SHMS prescale pretrig: k Σ e-KΛ evts: <u>—</u>	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <b>30mA</b>							

Run Number: <b>7959</b>	<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>8</u> PS3: <u>3</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:21</u> Stop time (from RC): <u>23:35</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-KΛ evts:	SHMS prescale pretrig: k Σ e-KΛ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <b>15 mA</b>							

Run Number: <b>7960</b>	<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>6</u> PS3: <u>3</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:37</u> Stop time (from RC): <u>23:50</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-KΛ evts:	SHMS prescale pretrig: k Σ e-KΛ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <b>5 mA</b>							

Run Number: <b>7961</b>	<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>-1</u> PS2: <u>8</u> PS3: <u>4</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>23:56</u> Stop time (from RC): <u>00:10</u>	<input type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-KΛ evts:	SHMS prescale pretrig: k Σ e-KΛ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <del>30mA</del> <b>40mA</b>							

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 e-KΛ evts:	SHMS prescale pretrig: k Σ e-KΛ 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 e-KΛ evts:	SHMS prescale pretrig: k Σ e-KΛ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							