

p(e,e'K)Λ Run Sheet

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

Date: 2019, 03, 23
yy mm dd

Initials: ZP

Use a separate sheet for each configuration.

Configuration Name:
Luminosity Scans

E_{beam}: 6.18 GeV **I_{beam}:** 30 μA

HMS
p: +/- -3.939 **θ(TV):** 13.005
From GUI Nearest 0.005

SHMS
p: +/- -3.939 **θ(TV):** 11.005
From GUI Nearest 0.005

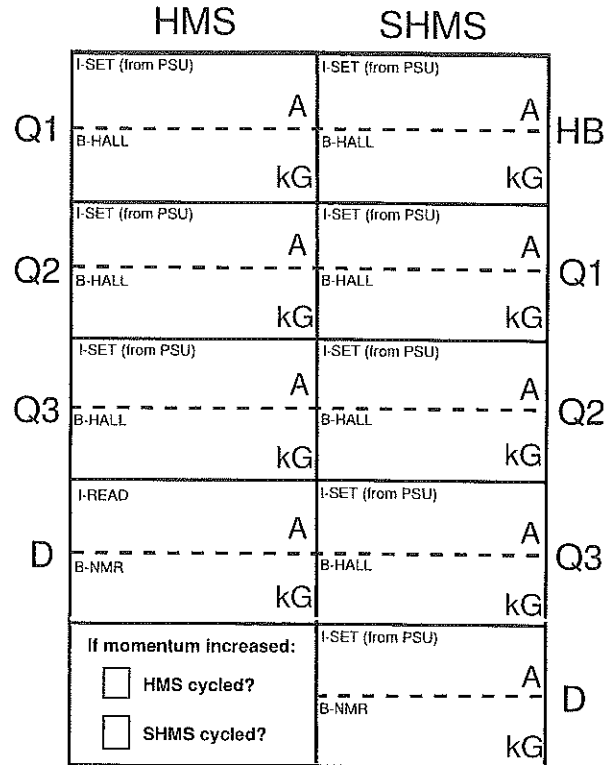
Collimator: **HMS:** Large Sieve **SHMS:** Large Sieve

Purpose:
 Production
 Test
 Optics
 Other: LUMI

Raster: On Off
Size: 2x2 mm²

Beam position and angle on target:

3H07A	X	Y
<u>-0.3</u>	mm	<u>-0.2</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-1.0</u>	mm	<u>+0.2</u> mm
Nomin:		Nomin:



Run Number: <u>7841</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. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>00:57</u> Stop time (from RC): <u>01:09</u>	<input checked="" 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 checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>30 μA</u>							

Run Number: <u>7842</u>	<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 checked="" type="checkbox"/> Pummy 10cm	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:19</u> Stop time (from RC): <u>01:33</u>	<input checked="" 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 checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>30 μA</u>							

Run Number: <u>7843</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. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>01:44</u> Stop time (from RC): <u>01:57</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-KΛ evts:	SHMS prescale pretrig: k Σ e-KΛ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>30 μA</u>							

Run Number: <u>7844</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. <input type="checkbox"/>	PS1: <u>-1</u> PS2: <u>5</u> PS3: <u>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:05</u> Stop time (from RC): <u>02:17</u>	<input checked="" 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 checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>15 μA</u>							

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

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

Date: 19 / 03 / 23
yy mm dd

Initials: ZP

Continuation of Configuration:

Luminosity scans

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

Run Number: <u>7845</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>5</u> PS3: <u>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:20</u> Stop time (from RC): <u>02:33</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-K Λ evts:	SHMS prescale pretrig: k Σ e-K Λ evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>5μA</u>							

Run Number: <u>7846</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>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>02:45</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-K Λ evts:	SHMS prescale pretrig: k Σ e-K Λ evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>5μA</u>							

Run Number: <u>7847</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>1</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>03:08</u> Stop time (from RC): <u>03:14</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale pretrig: k e-K Λ evts:	SHMS prescale pretrig: k Σ e-K Λ evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>15μA</u>							

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-K Λ evts:	SHMS prescale pretrig: k Σ e-K Λ 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-K Λ evts:	SHMS prescale pretrig: k Σ e-K Λ 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-K Λ evts:	SHMS prescale pretrig: k Σ e-K Λ 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/

Date: 19/3/23
yy mm dd

Initials: SK

Use a separate sheet for each configuration.

Configuration Name: _____
Lumi Scan #2

Purpose:

- Production
 Test
 Optics
 Other: _____

E_{beam} : 6.14 GeV I_{beam} : 70/50 μA

HMS
 p : \pm 3.434 From GUI $\theta(\text{TV})$: 13.00 Nearest 0.005

SHMS
 p : \pm 3.434 From GUI $\theta(\text{TV})$: 11.00 Nearest 0.005

Collimator: HMS: Large Sieve SHMS: Large Sieve

Raster: On Off
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>-0.292</u> mm		<u>-0.197</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>-0.004</u> mm		<u>0.199</u> mm
Nomin:		Nomin:

HMS SHMS

Q1	I-SET (from PSU) <u>513.1843</u> A	I-SET (from PSU) <u>1256.78</u> A	HB
	B-HALL <u>0.500</u> kG	B-HALL <u>8.331</u> kG	
Q2	I-SET (from PSU) <u>408.6556</u> A	I-SET (from PSU) <u>827.071</u> A	Q1
	B-HALL <u>-0.786</u> kG	B-HALL <u>-5.855</u> kG	
Q3	I-SET (from PSU) <u>198.4017</u> A	I-SET (from PSU) <u>1389.21</u> A	Q2
	B-HALL <u>0.399</u> kG	B-HALL <u>13.027</u> kG	
D	I-READ <u>1207.8</u> A	I-SET (from PSU) <u>914.089</u> A	Q3
	B-NMR <u>1.0784</u> T	B-HALL <u>8.850</u> kG	
	If momentum increased: <input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	I-SET (from PSU) <u>1256.78</u> A	D
		B-NMR <u>-9.125</u> kG	

Run Number: <u>7862</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>89</u> PS3: <u>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>14:51</u> Stop time (from RC): <u>15:03</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>192</u> k pretrig: <u>142</u> e-K Λ evts: <u>/</u>	SHMS prescale: <u>489</u> k pretrig: <u>/</u> Σ e-K Λ evts: <u>/</u>	COIN pretrig: <u>/</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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70mA 192k HMS PS PT rate

Run Number: <u>7863</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>8</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:06</u> Stop time (from RC): <u>15:19</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>140</u> k pretrig: <u>/</u> e-K Λ evts: <u>/</u>	SHMS prescale: <u>360</u> k pretrig: <u>/</u> Σ e-K Λ evts: <u>/</u>	COIN pretrig: <u>/</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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50mA

Run Number: <u>7864</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>9</u> PS3: <u>7</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:37</u> Stop time (from RC): <u>15:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input type="checkbox"/> 50k OK?	HMS prescale: <u>110</u> k pretrig: <u>/</u> e-K Λ evts: <u>/</u>	SHMS prescale: <u>260</u> k pretrig: <u>/</u> Σ e-K Λ evts: <u>/</u>	COIN pretrig: <u>/</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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70mA 65 μ A

Run Number: <u>7865</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>8</u> PS3: <u>7</u> PS4: <u>-1</u> PS5: <u>-1</u> PS6: <u>-1</u>	Start time (from RC): <u>15:51</u> Stop time (from RC): <u>16:06</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK? <input checked="" type="checkbox"/> 50k OK?	HMS prescale: <u>78</u> k pretrig: <u>/</u> e-K Λ evts: <u>/</u>	SHMS prescale: <u>202</u> k pretrig: <u>/</u> Σ e-K Λ evts: <u>/</u>	COIN pretrig: <u>/</u> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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50mA