

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

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

Date: 10/8/18

Initials: VVB

Use a separate sheet for each configuration.

Configuration Name: \_\_\_\_\_  
 $Q^2=3.0, W=3.14, x=0.25$   
high E, SHMS 1st

$E_{\text{beam}}$ : 10.6 GeV  $I_{\text{beam}}$ : 60  $\mu\text{A}$

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

Raster: ☒ On ☐ Off  
Size: 2x2

Beam position and angle on target:

3H07A	X	Y
<u>0.013</u> mm		<u>0.012</u> mm
Nomin:		Nomin:
3H07C	X	Y
<u>+1.008</u> mm		<u>0.025</u> mm
Nomin:		Nomin:

HMS  
 $p_{\text{HMS}} \pm \theta(\text{TV})$ : -4.204 14.93

SHMS  
 $p_{\text{SHMS}} \pm \theta(\text{TV})$ : +6.053 12.46

Collimator: HMS: Large ☒ Sieve ☐ SHMS: Large ☒ Sieve ☐

HMS		SHMS	
Q1	I-SET <u>547.7184</u> A B-HALL <u>0.535</u> kG	I-SET <u>2035.43</u> A B-HALL <u>-12.933</u> kG	HB
Q2	I-SET <u>435.5262</u> A B-HALL <u>-0.842</u> kG	I-SET <u>1272.3</u> A B-HALL <u>9.043</u> kG	Q1
Q3	I-SET <u>211.72</u> A B-HALL <u>0.425</u> kG	I-SET <u>2134.78</u> A B-HALL <u>-20.089</u> kG	Q2
D	I-READ <u>1291.6</u> A B-NMR <u>1.15091</u> kG	I-SET <u>1404.67</u> A B-HALL <u>-13.552</u> kG	Q3
	<input type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	I-SET <u>1931.27</u> A B-NMR <u>13.845</u> kG	D

Run Number: <u>5013</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>11</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>10:54</u> Stop time (from RC): <u>11:50</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>30.619</u> k $e-K\Lambda$ evts: <u>749</u>	SHMS pretrig: <u>63.280</u> k $\Sigma e-K\Lambda$ evts: <u>749</u>	COIN pretrig: <u>249</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>143.639</u>							

Run Number: <u>5014</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>11</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>11:51</u> Stop time (from RC): <u>12:49</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>61.940</u> k $e-K\Lambda$ evts: <u>733</u>	SHMS pretrig: <u>44.388</u> k $\Sigma e-K\Lambda$ evts: <u>1482</u>	COIN pretrig: <u>564</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>5015</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>11</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>12:50</u> Stop time (from RC): <u>13:51</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>73.416</u> k $e-K\Lambda$ evts: <u>750</u>	SHMS pretrig: <u>150.775</u> k $\Sigma e-K\Lambda$ evts: <u>2232</u>	COIN pretrig: <u>595</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>5016</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>11</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>13:52</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>14.825</u> k $e-K\Lambda$ evts: <u>137</u>	SHMS pretrig: <u>30.508</u> k $\Sigma e-K\Lambda$ evts: <u>2369</u>	COIN pretrig: <u>121</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>14:10 DAQ crashed</u>							

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

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Date: 10 / 8 / 18

Initials: \_\_\_\_\_

## Continuation of Configuration:

$Q^2 = 3.0, W = 3.14, x = 0.25$

high e, SHMS left

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

Run Number: 5017	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 14:12 Stop time (from RC): 15:04	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 57,708 k e-K $\Lambda$ evts: 597	SHMS pretrig: 119,150 k $\Sigma$ e-K $\Lambda$ evts: 2966	COIN pretrig: 474 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5018	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 15:05 Stop time (from RC): 16:04	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 91474 k e-K $\Lambda$ evts: 925	SHMS pretrig: 189903 k $\Sigma$ e-K $\Lambda$ evts: 3705	COIN pretrig: 739 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5019	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 16:04 Stop time (from RC): 17:04	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 84246 k 873	SHMS pretrig: 174201 k 4578	COIN pretrig: 672 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5020	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 17:04 Stop time (from RC): 18:06	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 81094 k 834	SHMS pretrig: 169833 k 5412	COIN pretrig: 665 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5021	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 18:06 Stop time (from RC): 19:10	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 68645 k 683	SHMS pretrig: 141675 k 6095	COIN pretrig: 554 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5022	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 19:10 Stop time (from RC): 20:08	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 66600 k 683	SHMS pretrig: 137246 k 6778	COIN pretrig: 541 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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# $p(e,e'K)\Lambda$ Run Sheet

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Date: 10 / 08 / 18

Initials: BIK

## Continuation of Configuration:

$Q^2 = 3.0$   $W = 3.14$   $x = 0.25$   
high  $e$ , SHMS left

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

Run Number: 5023	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 20:11 Stop time (from RC): 20:10	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 67098 k $e-K\Lambda$ evts: 664	SHMS pretrig: 140208 k $\Sigma e-K\Lambda$ evts: 7442	COIN pretrig: 555 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5024	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 20:10 Stop time (from RC): 22:11	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 79212 k $e-K\Lambda$ evts: 823	SHMS pretrig: 161165 k $\Sigma e-K\Lambda$ evts: 8265	COIN pretrig: 638 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5025	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 22:14 Stop time (from RC): 23:14	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 62875 k $e-K\Lambda$ evts: 665	SHMS pretrig: 127718 k $\Sigma e-K\Lambda$ evts: 8930	COIN pretrig: 513 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5026	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 23:14 Stop time (from RC): 00:10	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 74524 k $e-K\Lambda$ evts: 706	SHMS pretrig: 159965 k $\Sigma e-K\Lambda$ evts: 9636	COIN pretrig: 623 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5027	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 00:17 Stop time (from RC): 01:25	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 988902 k $e-K\Lambda$ evts: 1021	SHMS pretrig: 212925 k $\Sigma e-K\Lambda$ evts: 10657	COIN pretrig: 821 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5028	<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?	HMS pretrig: _____ k $e-K\Lambda$ evts: _____	SHMS pretrig: _____ k $\Sigma e-K\Lambda$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input checked="" 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: 09/10/18

Initials: *ML*

## Continuation of Configuration:

$$Q^2 = 3.0 \quad W = 3.14$$

$x = 0.25$  high  $\epsilon$ , SHMS Left

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

Run Number: <b>5029</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: 8 PS2: -1 PS3: 8 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 01:38 Stop time (from RC): 02:22	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 16287 k e-K $\Lambda$ evts: —	SHMS pretrig: 24310 k $\Sigma$ e-K $\Lambda$ evts: —	COIN pretrig: 66 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5030</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: 8 PS2: -1 PS3: 8 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 02:22 Stop time (from RC): 03:11	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 21075 k e-K $\Lambda$ evts: —	SHMS pretrig: 31466 k $\Sigma$ e-K $\Lambda$ evts: —	COIN pretrig: 91 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5031</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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 03:24 Stop time (from RC): 04:25	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 78068 k e-K $\Lambda$ evts: 747	SHMS pretrig: 164580 k $\Sigma$ e-K $\Lambda$ evts: 11404	COIN pretrig: 647 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5032</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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 04:26 Stop time (from RC): 05:18	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 55642 k e-K $\Lambda$ evts: 556	SHMS pretrig: 112455 k $\Sigma$ e-K $\Lambda$ evts: 11960	COIN pretrig: 404 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5033</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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 05:19 Stop time (from RC): 07:02	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 66461 k e-K $\Lambda$ evts: 693	SHMS pretrig: 136617 k $\Sigma$ e-K $\Lambda$ evts: 12653	COIN pretrig: 507 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5034</b>	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 17:13 Stop time (from RC): 17:28	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: k e-K $\Lambda$ evts:	SHMS pretrig: k $\Sigma$ e-K $\Lambda$ evts:	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Short run with lots of trip

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

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Date: 09/10/18

Initials: BK

## Continuation of Configuration:

$Q^2 = 3.0$   $W = 3.14$   $x = 0.25$

high E SHMS left

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

Run Number: 5035	<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: 10 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 17:44 Stop time (from RC): 18:45	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: e-K $\Lambda$ evts: 323	SHMS pretrig: $\Sigma$ e-K $\Lambda$ evts: 12976	COIN pretrig: 182 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Junk tot beam ~~incom~~ trippy

Run Number: 5036	<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: 10 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 18:53 Stop time (from RC): 19:48	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: e-K $\Lambda$ evts: 154	SHMS pretrig: $\Sigma$ e-K $\Lambda$ evts: 13130	COIN pretrig: 121 k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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trippy beam Junk

Run Number: 5037	<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: 10 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC):  Stop time (from RC): 	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: k	SHMS pretrig: k	COIN pretrig: k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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Run Number: 5038	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 21:40 Stop time (from RC): 22:36	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: e-K $\Lambda$ evts: 601	SHMS pretrig: $\Sigma$ e-K $\Lambda$ evts: 13254	COIN pretrig: 398 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5039	<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: 11 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 22:37 Stop time (from RC): 	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: e-K $\Lambda$ evts: 710	SHMS pretrig: $\Sigma$ e-K $\Lambda$ evts: 13960	COIN pretrig: 497 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: <del>5040</del>	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 01:24:36 Stop time (from RC): 	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: e-K $\Lambda$ evts:	SHMS pretrig: $\Sigma$ e-K $\Lambda$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Date: 09/10/18

Initials: HA

Use a separate sheet for each configuration.

Configuration Name:  $Q^2=3.0, W=3.14, x=0.25$   
high  $\epsilon$ , SHMS Right Center

$E_{\text{beam}}$ : 10.6 GeV  $I_{\text{beam}}$ : 60  $\mu\text{A}$

HMS  
 $p_{\text{HMS}}$ : -4.204  $\theta(\text{TV})$ : 14.93

SHMS  
 $p_{\text{SHMS}}$ : +6.053  $\theta(\text{TV})$ : 9.41

Collimator: HMS: Large ☒ Sieve ☐ SHMS: Large ☒ Sieve ☐

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

Raster: ☒ On ☐ Off  
Size: 2 x 2

Beam position and angle on target:

3H07A	X	Y
	mm	mm
Nomin:	0	Nomin: -1
3H07C	X	Y
	mm	mm
Nomin:	0	Nomin: 0

	HMS	SHMS	
Q1	I-SET 547.72 A B-HALL 0.534 KG	I-SET 2035.43 A B-HALL -12.933 KG	HB
Q2	I-SET 435.53 A B-HALL -0.841 KG	I-SET 1272.3 A B-HALL 9.044 KG	Q1
Q3	I-SET 211.72 A B-HALL 0.423 KG	I-SET 2134.78 A B-HALL -20.040 KG	Q2
D	I-READ 1290.12 A B-NMR 1.15090 KG	I-SET 1404.67 A B-HALL -13.554 KG	Q3
	<input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	I-SET 1931.27 A B-NMR 13.845 KG	D

Run Number: <u>5040</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>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>9</u> PS6: <u>-1</u>	Start time (from RC): <u>01:24:36</u> Stop time (from RC): <u>01:42:47</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>9627</u> k $e-K\Lambda$ evts: <u>139</u>	SHMS pretrig: <u>85489</u> k $\Sigma e-K\Lambda$ evts: <u>139</u>	COIN pretrig: <u>226</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>Ended run because MCC took too long for beam tuning.</u>							

Run Number: <u>5041</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>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>9</u> PS6: <u>-1</u>	Start time (from RC): <u>02:20:08</u> Stop time (from RC): <u>02:54:48</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>21806</u> k $e-K\Lambda$ evts: <u>316</u>	SHMS pretrig: <u>199771</u> k $\Sigma e-K\Lambda$ evts: <u>455</u>	COIN pretrig: <u>525</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments: <u>stopped early because started to get only 10 nA.</u>							

Run Number: <u>5042</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>13</u> PS2: <u>-1</u> PS3: <u>10</u> PS4: <u>-1</u> PS5: <u>9</u> PS6: <u>-1</u>	Start time (from RC): <u>03:08:57</u> Stop time (from RC): <u>04:03:58</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>75900</u> k $e-K\Lambda$ evts: <u>914</u>	SHMS pretrig: <u>679229</u> k $\Sigma e-K\Lambda$ evts: <u>1369</u>	COIN pretrig: <u>1859</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <u>5043</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: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: _____ k $e-K\Lambda$ evts: _____	SHMS pretrig: _____ k $\Sigma e-K\Lambda$ evts: _____	COIN pretrig: _____ k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments: <u>getting only 10 nA.</u>							

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

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

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Initials: \_\_\_\_

## Continuation of Configuration:

$Q^2=3.0$ ,  $N=3.14$ ,  $X=0.25$

high E, STMS center

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

Run Number: 5044	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 9 PS6: -1	Start time (from RC): 04:15:26 Stop time (from RC): 05:24:48	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 471881 k e-K $\Lambda$ evts: 668	SHMS pretrig: k $\Sigma$ e-K $\Lambda$ evts: 2037	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

beam was unstable time to time.

Run Number: 5045	<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: 12 PS2: -1 PS3: 10 PS4: -1 PS5: 9 PS6: -1	Start time (from RC): 05:33:16 Stop time (from RC): 06:24	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 31758 k e-K $\Lambda$ evts: 386	SHMS pretrig: 280080 k $\Sigma$ e-K $\Lambda$ evts: 2423	COIN pretrig: 694 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

ended run for ROC 8 reboot.

Run Number: 5046	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 9 PS6: -1	Start time (from RC): 06:35:50 Stop time (from RC): 07:34	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 75121 k e-K $\Lambda$ evts: 980	SHMS pretrig: 672286 k 3403	COIN pretrig: 1803 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Run Number: 5047	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 9 PS6: -1	Start time (from RC): 07:36:08 Stop time (from RC): 08:32:33	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 1635 k e-K $\Lambda$ evts: 804	SHMS pretrig: 163470 k 4207	COIN pretrig: 1635 k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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Comments:

Run Number: 5048	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 9 PS6: -1	Start time (from RC): 08:34:16 Stop time (from RC): 8:42:24	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 11.6 k e-K $\Lambda$ evts: 97	SHMS pretrig: 13.1 k 4304	COIN pretrig: 147.7 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

ROC 8 error - probably ok..

Run Number: 5049	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 9 PS6: -1	Start time (from RC): 8:47 Stop time (from RC): 8:57	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 35433.8 k e-K $\Lambda$ evts: 77	SHMS pretrig: 4049 k 4381	COIN pretrig: 80.7 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Some time beam derailed

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

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

Date: 10/10/18

Initials: *RG*

## Continuation of Configuration:

$Q^2=3, W=3.14, x=0.25$

high  $\Sigma$  SHMS central

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

Run Number: 5050	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 09:19:49 Stop time (from RC): 10:15:29	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 54132 k e-K $\Lambda$ evts: 612	SHMS pretrig: 496723 k $\Sigma$ e-K $\Lambda$ evts: 4993	COIN pretrig: 1328 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5051	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 10:16 Stop time (from RC): 10:30	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 12897 k e-K $\Lambda$ evts: 141	SHMS pretrig: 118893 k $\Sigma$ e-K $\Lambda$ evts: 5134	COIN pretrig: 321.8 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

end for Hall C dump water flow issue

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?	HMS pretrig: <del>12897</del> k e-K $\Lambda$ evts: _____	SHMS pretrig: <del>118893</del> k $\Sigma$ e-K $\Lambda$ evts: _____	COIN pretrig: <del>321.8</del> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5052	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 11:14:55 Stop time (from RC): 12:00:08	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 28165 k e-K $\Lambda$ evts: 383	SHMS pretrig: 258721 k $\Sigma$ e-K $\Lambda$ evts: 5517	COIN pretrig: 692 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Turn beam at end.

Run Number: 5053	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 12:08:38 Stop time (from RC): 13:07:35	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 64930 k e-K $\Lambda$ evts: 763	SHMS pretrig: 598822 k $\Sigma$ e-K $\Lambda$ evts: 6280	COIN pretrig: 1575 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5054	<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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 13:08:14 Stop time (from RC): 14:02:30	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 45800 k e-K $\Lambda$ evts: 526	SHMS pretrig: 419457 k $\Sigma$ e-K $\Lambda$ evts: 6806	COIN pretrig: 1109 k <input checked="" 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: 10/10/18

Initials: *RG*

## Continuation of Configuration:

$Q^2=3, W=3.14, x=0.25$

high  $\Sigma$ , SHMS central

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

Run Number: <b>5055</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 14:03 Stop time (from RC): 14:59:43	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 32680 k e-K $\Lambda$ evts: 445	SHMS pretrig: 300369 k $\Sigma$ e-K $\Lambda$ evts: 7251	COIN pretrig: 79435 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5056</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 15:00:21 Stop time (from RC): 15:44:23	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 36210 k e-K $\Lambda$ evts: 361	SHMS pretrig: 334026 k $\Sigma$ e-K $\Lambda$ evts: 7612	COIN pretrig: 883 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5057</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 15:45:07 Stop time (from RC): 16:44	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 69094 k e-K $\Lambda$ evts: 810	SHMS pretrig: 635897 k $\Sigma$ e-K $\Lambda$ evts: 8422	COIN pretrig: 1690 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5058</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 16:44 Stop time (from RC): 17:42	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 40730 k e-K $\Lambda$ evts: 478	SHMS pretrig: 988275 k $\Sigma$ e-K $\Lambda$ evts: 8900	COIN pretrig: 1017 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5059</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: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 18:42 Stop time (from RC): 19:48	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 65516 k e-K $\Lambda$ evts: 793	SHMS pretrig: 620890 k $\Sigma$ e-K $\Lambda$ evts: 9693	COIN pretrig: 1559 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5060</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: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 19:44 Stop time (from RC): 20:42	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 40204 k e-K $\Lambda$ evts: 508	SHMS pretrig: 374357 k $\Sigma$ e-K $\Lambda$ evts: 10101	COIN pretrig: 935 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

10201 cam

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

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

Date: 10/20/14

Initials: BJK

## Continuation of Configuration:

$\theta^2 = 3$   $1/N = 3.14$   $X = 0.25$   
high  $\epsilon$  SHMS central

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

Run Number: <b>5061</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: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <del>22:24</del> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: k e-K $\Lambda$ evts: -	SHMS pretrig: k $\Sigma$ e-K $\Lambda$ evts: 10269	COIN pretrig: k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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Comments:

Junk

Run Number: <b>5062</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: 13 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 22:24 Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: k 49927 e-K $\Lambda$ evts: 575	SHMS pretrig: k 447273 $\Sigma$ e-K $\Lambda$ evts: 10269	COIN pretrig: k 1119 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

10776 cam

Run Number: <b>5063</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 03:25:48 Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: k 58	SHMS pretrig: k 10834	COIN pretrig: k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Ended due to south Linac down. Many trips, short run. ~55  $\mu$ A

Run Number: <b>5064</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 05:51:35 Stop time (from RC): 06:53:12	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: k 60273 e-K $\Lambda$ evts: 800	SHMS pretrig: k 559090 $\Sigma$ e-K $\Lambda$ evts: 11634	COIN pretrig: k 1606 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Run Number: <b>5065</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 06:54:10 Stop time (from RC): 07:11:26	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: k 20495 e-K $\Lambda$ evts: 225	SHMS pretrig: k 192723 $\Sigma$ e-K $\Lambda$ evts: 11859	COIN pretrig: k 561 <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Run Number: <b>5066</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 07:26:00 Stop time (from RC): 8:18:55	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: k 41240 e-K $\Lambda$ evts: 538	SHMS pretrig: k 370594 $\Sigma$ e-K $\Lambda$ evts: 12397	COIN pretrig: k 968 <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Back to 50  $\mu$ A

Last half hour only spikes of beam

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

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

October 11, 2018

Date: 11/10/18

Initials: SAU

## Continuation of Configuration:

$Q^2=3$   $W=3.14$   $x=0.25$

high SHMS central

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

Run Number: <b>5067</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. <input type="checkbox"/> _____	PS1: 9 PS2: -1 PS3: 6 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>10:37:59</b> Stop time (from RC): <b>12:20</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>40653</b> k e-K $\Lambda$ evts: —	SHMS pretrig: <b>236306</b> k $\Sigma$ e-K $\Lambda$ evts: —	COIN pretrig: <b>311</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5068</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. <input type="checkbox"/> _____	PS1: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>12:26</b> Stop time (from RC): <b>13:43:57</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>72376</b> k e-K $\Lambda$ evts: <b>938</b>	SHMS pretrig: <b>641016</b> k $\Sigma$ e-K $\Lambda$ evts: <b>13335</b>	COIN pretrig: <b>1556</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5069</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. <input type="checkbox"/> _____	PS1: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>13:44:30</b> Stop time (from RC): <b>14:55:03</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>76976</b> k e-K $\Lambda$ evts: <b>1018</b>	SHMS pretrig: <b>679332</b> k $\Sigma$ e-K $\Lambda$ evts: <b>14353</b>	COIN pretrig: <b>1638</b> k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments:							

Run Number: <b>5070</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. <input type="checkbox"/> _____	PS1: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>14:55:40</b> Stop time (from RC): <b>15:04:41</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>7587</b> k e-K $\Lambda$ evts: <b>104</b>	SHMS pretrig: <b>64311</b> k $\Sigma$ e-K $\Lambda$ evts: <b>14457</b>	COIN pretrig: <b>143</b> k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

stopped early because NO beam for Hall D Ion Chamber calibration

Run Number: <b>5071</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. <input type="checkbox"/> _____	PS1: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>15:20:36</b> Stop time (from RC): <b>16:17</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>54062</b> k e-K $\Lambda$ evts: <b>737</b>	SHMS pretrig: <b>476540</b> k $\Sigma$ e-K $\Lambda$ evts: <b>15194</b>	COIN pretrig: <b>1121</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5072</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. <input type="checkbox"/> _____	PS1: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>16:17</b> Stop time (from RC): <b>17:16</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>61511</b> k e-K $\Lambda$ evts: <b>860</b>	SHMS pretrig: <b>537647</b> k $\Sigma$ e-K $\Lambda$ evts: <b>16054</b>	COIN pretrig: <b>2173</b> k <input checked="" 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 / 10 / 18

Initials: BK

## Continuation of Configuration:

$Q^2 = 3$   $W = 3.14$   $X = 0.25$

high  $\epsilon$  SHMS Central

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

Run Number: <b>5073</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 5:16 Stop time (from RC): 6:19	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 48239 k $e-K\Lambda$ evts: 614	SHMS pretrig: 421967 k $\Sigma e-K\Lambda$ evts: 16668	COIN pretrig: 946 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5074</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 18:20 Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: k $e-K\Lambda$ evts:	SHMS pretrig: k $\Sigma e-K\Lambda$ evts:	COIN pretrig: k <input type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments:							

JUNK

Run Number: <b>5075</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 20:10 Stop time (from RC): 21:18	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 57285 k $e-K\Lambda$ evts: 702	SHMS pretrig: 51001 k $\Sigma e-K\Lambda$ evts: 173070	COIN pretrig: 1249 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5076</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 21:18 Stop time (from RC): 22:21	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 61874 k $e-K\Lambda$ evts: 932	SHMS pretrig: 539688 k $\Sigma e-K\Lambda$ evts: 18302	COIN pretrig: 1211 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5077</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): 22:21 Stop time (from RC): 23:12	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 37925 k $e-K\Lambda$ evts: 574	SHMS pretrig: 330614 k $\Sigma e-K\Lambda$ evts: 18876	COIN pretrig: 752 k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
Comments:							

Run Number: <b>5078</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: 13 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: 1	Start time (from RC): Stop time (from RC):	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: k $e-K\Lambda$ evts:	SHMS pretrig: k $\Sigma e-K\Lambda$ 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/)

Date: 10/12/2018

Initials: \_\_\_\_\_

Use a separate sheet for each configuration.

HMS

SHMS

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

$Q^2=3.0$   $W=3.14$   $X=0.25$

high E SHMS right

$E_{beam}$ : 10.6 GeV

$I_{beam}$ : 35  $\mu A$

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other: \_\_\_\_\_

Raster: ☒ On ☐ Off

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

HMS

$p$ : +/- -4.204  $\theta$ (TV): 14.93

SHMS

$p$ : +/- +6.053  $\theta$ (TV): 6.495

Beam position and angle on target:

3H07A	X	Y
0	mm	-1
Nomin:		Nomin:
3H07C	X	Y
0	mm	0
Nomin:		Nomin:

Q1	I-SET 547.90 A B-HALL 0.535 KG	I-SET 2035.35 A B-HALL -12.933 KG	HB
Q2	I-SET 435.71 A B-HALL -0.843 KG	I-SET 1272.32 A B-HALL 9.044 KG	Q1
Q3	I-SET 211.35 A B-HALL 0.424 KG	I-SET 2134.56 A B-HALL -20.091 KG	Q2
D	I-READ 1290.27 A B-NMR 1.151 KG	I-SET 1404.52 A B-HALL -13.55 KG	Q3
	<input checked="" type="checkbox"/> HMS cycled? <input checked="" type="checkbox"/> SHMS cycled?	I-SET 1931.16 A B-NMR 13845 KG	D

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?

HMS pretrig:

SHMS pretrig:

COIN pretrig:

$e-K\Lambda$  evts:

$\Sigma e-K\Lambda$  evts:

☐ 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?

HMS pretrig:

SHMS pretrig:

COIN pretrig:

$e-K\Lambda$  evts:

$\Sigma e-K\Lambda$  evts:

☐ 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?

HMS pretrig:

SHMS pretrig:

COIN pretrig:

$e-K\Lambda$  evts:

$\Sigma e-K\Lambda$  evts:

☐ 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?

HMS pretrig:

SHMS pretrig:

COIN pretrig:

$e-K\Lambda$  evts:

$\Sigma e-K\Lambda$  evts:

☐ 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/)

Date: 10/12/18

Initials: Cam

## Continuation of Configuration:

$$Q^2 = 3, W = 3.14, x = 0.25$$

high E SHMS right

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

Run Number: <b>5078</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>14</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>12:58 (Log)</u> Stop time (from RC): <u>01:17 (Log)</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>20736</u> k e-K $\Lambda$ evts: <u>79</u>	SHMS pretrig: <u>746829</u> k $\Sigma$ e-K $\Lambda$ evts: <u>79</u>	COIN pretrig: <u>1261</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Beginning of right SHMS IN 35 MA 6153 k

Run Number: <b>5079</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>14</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>01:18 (Log)</u> Stop time (from RC): <u>01:25 (Log)</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <del>2073</del> k e-K $\Lambda$ evts: <u>25</u>	SHMS pretrig: <u>219495</u> k $\Sigma$ e-K $\Lambda$ evts: <u>104</u>	COIN pretrig: <u>322</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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checking if we can get better tracking eff. (SHMS) with IN 30 MA

Run Number: <b>5080</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>14</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>1:27:52</u> Stop time (from RC):	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>58766</u> k <u>150</u>	SHMS pretrig: <u>2119124</u> k <u>254</u>	COIN pretrig: <u>3577</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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IN 35 MA

Run Number: <b>5081</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>14</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>02:25:14</u> Stop time (from RC): <u>03:20:11</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>53827</u> k <u>145</u>	SHMS pretrig: <u>1943664</u> k <u>399</u>	COIN pretrig: <u>3263</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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IN 35 MA

Run Number: <b>5082</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>14</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>03:20:53</u> Stop time (from RC): <u>04:11:53</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>49843</u> k <u>73</u>	SHMS pretrig: <u>1800604</u> k <u>472</u>	COIN pretrig: <u>3043</u> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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IN 35 MA

Run Number: <b>5083</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>14</u> PS2: <u>-1</u> PS3: <u>9</u> PS4: <u>-1</u> PS5: <u>0</u> PS6: <u>-1</u>	Start time (from RC): <u>04:13:41</u> Stop time (from RC): <u>04:19:10</u>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <u>3088</u> k <u>0</u>	SHMS pretrig: <u>111508</u> k <u>472</u>	COIN pretrig: <u>188</u> k <input checked="" type="checkbox"/> Data ok <input checked="" type="checkbox"/> Junk
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PSS fault stopped beam. Run 6 min.



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

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

Date: 10/12/18

Initials: *Cur*

## Continuation of Configuration:

$Q^2=3.0$ ,  $W=3.14$ ,  $x=0.25$

high E SHMS, right

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

Run Number: <b>5084</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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>07:26:47</b> Stop time (from RC): <b>07:56</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>21896</b> k e-K $\Lambda$ evts: <b>54</b>	SHMS pretrig: <b>790477</b> k $\Sigma$ e-K $\Lambda$ evts: <b>526</b>	COIN pretrig: <b>1340</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Run Number: <b>5085</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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>08:39</b> Stop time (from RC): <b>09:07</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>14959</b> k e-K $\Lambda$ evts: <b>36</b>	SHMS pretrig: <b>538915</b> k $\Sigma$ e-K $\Lambda$ evts: <b>552</b>	COIN pretrig: <b>920</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Run Number: <b>5086</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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>09:56</b> Stop time (from RC): <b>10:23</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>28819</b> k e-K $\Lambda$ evts: <b>103</b>	SHMS pretrig: <b>1038938</b> k $\Sigma$ e-K $\Lambda$ evts: <b>655</b>	COIN pretrig: <b>1766</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments:

Run Number: <b>5087</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: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): <b>15:44</b> Stop time (from RC): <b>15:44</b>	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: _____ k e-K $\Lambda$ evts: _____	SHMS pretrig: _____ k $\Sigma$ e-K $\Lambda$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: **Junk**

Run Number: <b>5088</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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>15:49</b> Stop time (from RC): <b>15:53</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: _____ k e-K $\Lambda$ evts: _____	SHMS pretrig: _____ k $\Sigma$ e-K $\Lambda$ evts: _____	COIN pretrig: _____ k <input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Comments: **Taken while beam study (SHMS tracking  $\rightarrow$  78%)**

Run Number: <b>5089</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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): <b>16:42</b> Stop time (from RC): <b>17:15</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>50862</b> k e-K $\Lambda$ evts: <b>137</b>	SHMS pretrig: <b>1834821</b> k $\Sigma$ e-K $\Lambda$ evts: <b>792</b>	COIN pretrig: <b>3068</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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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: \_\_\_\_/\_\_\_\_/\_\_\_\_

Initials: \_\_\_\_

## Continuation of Configuration:

$Q^2=3$   $W=3.14$ ,  $x=0.25$   
high  $E$  SHMS right

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

Run Number: <b>5090</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: <b>14</b> PS2: <b>-1</b> PS3: <b>9</b> PS4: <b>-1</b> PS5: <b>0</b> PS6: <b>-1</b>	Start time (from RC): <b>17:16</b> Stop time (from RC): <b>18:21</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>61020</b> k e-K $\Lambda$ evts: <b>185</b>	SHMS pretrig: <b>2202412</b> k $\Sigma$ e-K $\Lambda$ evts: <b>977</b>	COIN pretrig: <b>3662</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5091</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: <b>14</b> PS2: <b>-1</b> PS3: <b>9</b> PS4: <b>-1</b> PS5: <b>0</b> PS6: <b>-1</b>	Start time (from RC): <b>18:22</b> Stop time (from RC): <b>19:23</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>63030</b> k e-K $\Lambda$ evts: <b>109</b>	SHMS pretrig: <b>2295376</b> k $\Sigma$ e-K $\Lambda$ evts: <b>1086</b>	COIN pretrig: <b>3853</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5092</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: <b>14</b> PS2: <b>-1</b> PS3: <b>9</b> PS4: <b>-1</b> PS5: <b>0</b> PS6: <b>-1</b>	Start time (from RC): <b>19:23</b> Stop time (from RC): <b>20:22</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>64214</b> k e-K $\Lambda$ evts: <b>158</b>	SHMS pretrig: <b>2332844</b> k $\Sigma$ e-K $\Lambda$ evts: <b>1244</b>	COIN pretrig: <b>3978</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

- Fit Failed. Gaby did back of envelope calculation to determine good coincidences

Run Number: <b>5093</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: <b>14</b> PS2: <b>-1</b> PS3: <b>9</b> PS4: <b>-1</b> PS5: <b>0</b> PS6: <b>-1</b>	Start time (from RC): <b>20:23</b> Stop time (from RC): <b>21:35</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>72947</b> k e-K $\Lambda$ evts: <b>202</b>	SHMS pretrig: <b>2647879</b> k $\Sigma$ e-K $\Lambda$ evts: <b>1446</b>	COIN pretrig: <b>4509</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5094</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: <b>14</b> PS2: <b>-1</b> PS3: <b>9</b> PS4: <b>-1</b> PS5: <b>0</b> PS6: <b>-1</b>	Start time (from RC): <b>21:36</b> Stop time (from RC): <b>22:36</b>	<input checked="" type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: <b>61607</b> k e-K $\Lambda$ evts: <b>181</b>	SHMS pretrig: <b>2234543</b> k $\Sigma$ e-K $\Lambda$ evts: <b>1627</b>	COIN pretrig: <b>3797</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: <b>5095</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: <b>14</b> PS2: <b>-1</b> PS3: <b>9</b> PS4: <b>-1</b> PS5: <b>0</b> PS6: <b>-1</b>	Start time (from RC): <b>22:37</b> Stop time (from RC): <b>23:20</b>	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <b>19579</b> k e-K $\Lambda$ evts: <b>60</b>	SHMS pretrig: <b>709262</b> k $\Sigma$ e-K $\Lambda$ evts: <b>1687</b>	COIN pretrig: <b>1197</b> k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Ended run shard (1.3 M coda evts) due to Acc. problem.

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

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

Date: 10/13/18

Initials: BD

## Continuation of Configuration:

$Q^2=3.0, W=3.14, \text{high } E$   
 $x=0.25, \text{SHMS right}$

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

Run Number: 5096	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: -9 PS6: -1	Start time (from RC): 01:35:57 Stop time (from RC): 02:46:15	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 60449 k e-K $\Lambda$ evts: 153	SHMS pretrig: 2184783 k $\Sigma$ e-K $\Lambda$ evts: 1840	COIN pretrig: 3714 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5097	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: -9 PS6: -1	Start time (from RC): 02:46:49 Stop time (from RC): 03:45:16	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 65108 k e-K $\Lambda$ evts: 125	SHMS pretrig: 2354036 k $\Sigma$ e-K $\Lambda$ evts: 1965	COIN pretrig: 4026 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

FA failed. Made an estimation.

Run Number: 5098	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 03:45:55 Stop time (from RC): 04:46:53	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 67822 k e-K $\Lambda$ evts: 122	SHMS pretrig: 2452322 k $\Sigma$ e-K $\Lambda$ evts: 2087	COIN pretrig: 4197 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5099	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 04:47:54 Stop time (from RC): 05:44:30	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 50645 k e-K $\Lambda$ evts: 114	SHMS pretrig: 1829593 k $\Sigma$ e-K $\Lambda$ evts: 2201	COIN pretrig: 3116 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5100	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 05:45:58 Stop time (from RC): 06:43:13	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 60912 k e-K $\Lambda$ evts: 149	SHMS pretrig: 2201284 k $\Sigma$ e-K $\Lambda$ evts: 2350	COIN pretrig: 3751 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5101	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 06:44:03 Stop time (from RC): 07:39:51	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 60304 k e-K $\Lambda$ evts: 152	SHMS pretrig: 2181217 k $\Sigma$ e-K $\Lambda$ evts: 2502	COIN pretrig: 3722 k <input checked="" 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: 20/10/18

Initials: AA H.V.

Use a separate sheet for each configuration.

HMS

SHMS

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

$Q^2 = 3.0$ ,  $W = 3.14$

SHMS Center

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other: \_\_\_\_\_

$E_{\text{beam}}$ : 10.549 GeV

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

Raster: ☒ On ☐ Off

Size: 2x2

HMS

$p$ : +/- -4.204  $\theta(\text{TV})$ : 14.910

SHMS

$p$ : +/- +6.053  $\theta(\text{TV})$ : 9.425

Beam position and angle on target:

3H07A	X	Y
	<u>0</u> mm	<u>-1</u> mm
Nomin:		Nomin:
3H07C	X	Y
	<u>0</u> mm	<u>6</u> mm
Nomin:		Nomin:

Q1	I-SET <u>547.94</u> A	A	I-SET <u>2035.00</u> A	A	HB
	B-HALL <u>0.535</u> kg	kg	B-HALL <u>-12.933</u> kg	kg	
Q2	I-SET <u>435.69</u> A	A	I-SET <u>1272.20</u> A	A	Q1
	B-HALL <u>-0.843</u> kg	kg	B-HALL <u>9.044</u> kg	kg	
Q3	I-SET <u>211.36</u> A	A	I-SET <u>2134.52</u> A	A	Q2
	B-HALL <u>0.424</u> kg	kg	B-HALL <u>-20.090</u> kg	kg	
D	I-READ <u>1290.27</u> A	A	I-SET <u>1404.40</u> A	A	Q3
	B-NMR <u>1.1508</u> kg	kg	B-HALL <u>-13.554</u> kg	kg	
	<input checked="" type="checkbox"/> HMS cycled?		I-SET <u>1931.20</u> A	A	D
	<input checked="" type="checkbox"/> SHMS cycled?		B-NMR <u>13.838</u> kg	kg	

Run Number:

5304

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 9  
PS6: -7

Start time (from RC):

00:31

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

94,381 k

SHMS pretrig:

863,572 k

COIN pretrig:

3,110 k

$e-K\Lambda$  evts:

882

$\Sigma e-K\Lambda$  evts:

882

☒ Data ok

☐ Junk

Comments:

Run Number:

5305

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 9  
PS6: -7

Start time (from RC):

1:30

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

29,005 k

SHMS pretrig:

264,476 k

COIN pretrig:

954 k

$e-K\Lambda$  evts:

264

$\Sigma e-K\Lambda$  evts:

1146

☒ Data ok

☐ Junk

Comments:

Run Number:

5306

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 9  
PS6: -7

Start time (from RC):

2:18

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

91,408 k

SHMS pretrig:

833,224 k

COIN pretrig:

3007 k

$e-K\Lambda$  evts:

837

$\Sigma e-K\Lambda$  evts:

1983

☒ Data ok

☐ Junk

Comments:

Run Number:

5307

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 9  
PS6: -7

Start time (from RC):

3:21

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

111,957 k

SHMS pretrig:

1,023,054 k

COIN pretrig:

3730 k

$e-K\Lambda$  evts:

1070

$\Sigma e-K\Lambda$  evts:

3053

☒ 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/)

Date: 10/21/18

Initials: H.V.

## Continuation of Configuration:

$Q^2 = 3.0$   $W = 3.14$

SHMS Center

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

Run Number: 5308	<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: 14 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 4:19 Stop time (from RC): 5:21	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 106,032 k e-K $\Lambda$ evts: 1005	SHMS pretrig: 944,922 k $\Sigma$ e-K $\Lambda$ evts: 4058	COIN pretrig: 3377 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5309	<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: 14 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 5:22 Stop time (from RC): 6:21	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 102,147 k e-K $\Lambda$ evts: 992	SHMS pretrig: 929,575 k $\Sigma$ e-K $\Lambda$ evts: 5050	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5310	<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: 14 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 6:22 Stop time (from RC): 7:12	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 78,903 k e-K $\Lambda$ evts: 744	SHMS pretrig: 716,843 k $\Sigma$ e-K $\Lambda$ evts: 5794	<input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: <del>5311</del>	<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: _____ PS2: _____ PS3: _____ PS4: _____ PS5: _____ PS6: _____	Start time (from RC): _____ Stop time (from RC): _____	<input type="checkbox"/> Settings Verified? <input type="checkbox"/> HV OK?	HMS pretrig: _____ e-K $\Lambda$ evts: _____	SHMS pretrig: _____ $\Sigma$ e-K $\Lambda$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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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?	HMS pretrig: _____ e-K $\Lambda$ evts: _____	SHMS pretrig: _____ $\Sigma$ e-K $\Lambda$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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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?	HMS pretrig: _____ e-K $\Lambda$ evts: _____	SHMS pretrig: _____ $\Sigma$ e-K $\Lambda$ evts: _____	<input type="checkbox"/> Data ok <input type="checkbox"/> Junk
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# $p(e,e'K)\Lambda$ 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: \_\_\_\_/\_\_\_\_/\_\_\_\_

Initials: \_\_\_\_

HMS

SHMS

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

$Q^2 = 3.0$   $W = 3.14$

SHMS Left

$E_{\text{beam}} = 10.6$  GeV

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

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other: \_\_\_\_\_

Raster: ☒ On ☐ Off

Size:  $2 \times 2$

HMS

$p_{\text{HMS}} = -4.204$   $\theta(\text{TV}) = 14.910$

SHMS

$p_{\text{SHMS}} = +6.053$   $\theta(\text{TV}) = 12.420$

Collimator:

HMS: Large ☒ Sieve ☐

SHMS: Large ☒ Sieve ☐

Beam position and angle on target:

3H07A	X	Y
0	mm	-1
Nomin:		Nomin:
3H07C	X	Y
0	mm	0
Nomin:		Nomin:

Q1	I-SET 547.93 A B-HALL 0.537 kg	I-SET 2035.00 A B-HALL -12.933 kg	HB
Q2	I-SET 435.68 A B-HALL -0.843 kg	I-SET 1272.24 A B-HALL 9.044 kg	Q1
Q3	I-SET 211.36 A B-HALL 0.423 kg	I-SET 2134.60 A B-HALL -20.091 kg	Q2
D	I-READ 1290.27 A B-NMR 1.15088 kg	I-SET 1404.44 A B-HALL -13.551 kg	Q3
	<input checked="" type="checkbox"/> HMS cycled?	I-SET 1931.20 A B-NMR 13.838 kg	D
	<input checked="" type="checkbox"/> SHMS cycled?		

Run Number:

5311

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

7:29

Stop time (from RC):

8:00

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

4.8986 k

SHMS pretrig:

101.428 k

COIN pretrig:

448 k

$e-K\Lambda$  evts:

474

$\Sigma e-K\Lambda$  evts:

474

☒ Data ok

☐ Junk

Comments:

Data crush, ROL 3 disconnected.

Run Number:

5312

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

08:11

Stop time (from RC):

09:28

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

143.432 k

SHMS pretrig:

296.717 k

COIN pretrig:

1318 k

$e-K\Lambda$  evts:

1383

$\Sigma e-K\Lambda$  evts:

1857

☒ 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?

HMS pretrig:

k

SHMS pretrig:

k

COIN pretrig:

k

$e-K\Lambda$  evts:

$\Sigma e-K\Lambda$  evts:

☐ 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?

HMS pretrig:

k

SHMS pretrig:

k

COIN pretrig:

k

$e-K\Lambda$  evts:

$\Sigma e-K\Lambda$  evts:

☐ 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/)

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Initials: \_\_\_\_

Use a separate sheet for each configuration.

HMS

SHMS

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

$Q^2 = 3.0$   $W = 3.14$

SHMS ~~Left~~ Right

$E_{\text{beam}} = 10.6$  GeV

$I_{\text{beam}} = 30$   $\mu\text{A}$

Purpose:

☒ Production

☐ Test

☐ Optics

☐ Other: \_\_\_\_\_

Raster: ☒ On ☐ Off

Size:  $2 \times 2$

Beam position and angle on target:

3H07A	X	Y
0	mm	0
Nomin:		Nomin:
3H07C	X	Y
-1	mm	0
Nomin:		Nomin:

HMS

p: +/-  $4.2040$   $\theta(\text{TV}) = 14.910$

SHMS

p: +/-  $6.0530$   $\theta(\text{TV}) = 6.525$

Collimator:

HMS: Large ☒ Sieve ☐

SHMS: Large ☒ Sieve ☐

Q1	I-SET 547.93 A B-HALL 0.537 kg	I-SET 2035.05 A B-HALL -12.931 kg	HB
Q2	I-SET 435.71 A B-HALL -0.843 kg	I-SET 1272.28 A B-HALL 9.044 kg	Q1
Q3	I-SET 211.36 A B-HALL 0.423 kg	I-SET 2134.52 A B-HALL -20.092 kg	Q2
D	I-READ 1290.30 A B-NMR 1.15088 kg	I-SET 1404.36 A B-HALL -13.552 kg	Q3
	<input type="checkbox"/> HMS cycled? <input type="checkbox"/> SHMS cycled?	I-SET 1931.20 A B-NMR 13.838 kg	D

Run Number:

5313

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

09:50

Stop time (from RC):

10:49

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

51,655 k

e-K $\Lambda$  evts:

284

SHMS pretrig:

1,778,262 k

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

284

COIN pretrig:

2,660 k

☒ Data ok

☐ Junk

Comments:

Run Number:

5314

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

10:50

Stop time (from RC):

11:51

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

51,037 k

e-K $\Lambda$  evts:

275

SHMS pretrig:

1,757,565 k

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

559

COIN pretrig:

2,623 k

☒ Data ok

☐ Junk

Comments:

Run Number:

5315

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

11:51

Stop time (from RC):

12:51

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

40,967 k

e-K $\Lambda$  evts:

242

SHMS pretrig:

1,410,470 k

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

801

COIN pretrig:

2,111 k

☒ Data ok

☐ Junk

Comments:

Run Number:

5316

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

PS1: 14  
PS2: -1  
PS3: 10  
PS4: -1  
PS5: 0  
PS6: -1

Start time (from RC):

12:51

Stop time (from RC):

13:51

☒ Settings Verified?

☒ HV OK?

HMS pretrig:

44,273 k

e-K $\Lambda$  evts:

240

SHMS pretrig:

1,523,563 k

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

1041

COIN pretrig:

2,273 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/)

Date: 21 / 10 / 18

Initials: AA

## Continuation of Configuration:

$Q^2=3.0$ ,  $W=3.14$

stems Right

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

Run Number: 5317	<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: 14 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 13:51 Stop time (from RC): 14:51	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 40829 k e-K $\Lambda$ evts: 237	SHMS pretrig: 1405690 k $\Sigma$ e-K $\Lambda$ evts: 1278	COIN pretrig: 2095 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5318	<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: 14 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 14:51 Stop time (from RC): 15:51	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 39729 k e-K $\Lambda$ evts: 217	SHMS pretrig: 1367877 k $\Sigma$ e-K $\Lambda$ evts: 1495	COIN pretrig: 2026 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5319	<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: 14 PS2: -1 PS3: 10 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 15:51 Stop time (from RC): 16:51	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 49599 k e-K $\Lambda$ evts: 263	SHMS pretrig: 1707198 k $\Sigma$ e-K $\Lambda$ evts: 1758	COIN pretrig: 2544 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5320	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 16:52 Stop time (from RC): 18:01	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 60405 k e-K $\Lambda$ evts: 294	SHMS pretrig: 2077901 k $\Sigma$ e-K $\Lambda$ evts: 2052	COIN pretrig: 3101 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5321	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 18:02 Stop time (from RC): 19:05	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 55316 k e-K $\Lambda$ evts: 284	SHMS pretrig: 1905582 k $\Sigma$ e-K $\Lambda$ evts: 2336	COIN pretrig: 2840 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5322	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 19:06 Stop time (from RC): 20:05	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 55456 k e-K $\Lambda$ evts: 279	SHMS pretrig: 1910718 k $\Sigma$ e-K $\Lambda$ evts: 2615	COIN pretrig: 2854 k <input checked="" 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: 21 / 10 / 18

Initials: HA

## Continuation of Configuration:

$Q^2 = 3.0$ ,  $W = 3.14$

54Ms Right

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

Run Number: 5323	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 20:06 Stop time (from RC): 21:07	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 52123 k e-K $\Lambda$ evts: 286	SHMS pretrig: 1792055 k $\Sigma$ e-K $\Lambda$ evts: 2901	COIN pretrig: 2680 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5324	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 21:07 Stop time (from RC): 22:05	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 56351 k e-K $\Lambda$ evts: 288	SHMS pretrig: 1941099 k $\Sigma$ e-K $\Lambda$ evts: 3189	COIN pretrig: 2904 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5325	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 22:06 Stop time (from RC): 22:43	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 30962 k 175	SHMS pretrig: 1066967 k 3364	COIN pretrig: 1594 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5326	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 22:43 Stop time (from RC): 23:35	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 39095 k 217	SHMS pretrig: 1346640 k 3581	COIN pretrig: 2012 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5327	<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: 4/4 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 00:16 Stop time (from RC): 01:16	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 42,442 k 227	SHMS pretrig: 1,460,946 k 3808	COIN pretrig: 2192 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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Run Number: 5328	<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: 4/4 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 01:17 Stop time (from RC): 02:19	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 42,390 k 237	SHMS pretrig: 1,460,104 k 4045	COIN pretrig: 2192 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
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# $p(e,e'K)\Lambda$ Run Sheet

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

Date: 10/21/18

Initials: H.V.

## Continuation of Configuration:

$Q^2 = 3.0$   $W = 3.14$

SHMS Right

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

45,395 1,561,373

Run Number: 5329	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 02:19 Stop time (from RC): 03:17	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: <del>12,994</del> k e-K $\Lambda$ evts: 226	SHMS pretrig: <del>446,946</del> k $\Sigma$ e-K $\Lambda$ evts: 4271	COIN pretrig: 2337 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5330	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 03:18 Stop time (from RC): 04:19	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 50,584 k e-K $\Lambda$ evts: 234	SHMS pretrig: 1,741,487 k $\Sigma$ e-K $\Lambda$ evts: 4505	COIN pretrig: 2605 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5331	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 9 PS6: -1	Start time (from RC): 04:19 Stop time (from RC): 05:18	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 42,763 k e-K $\Lambda$ evts: 239	SHMS pretrig: 1,473,120 k e-K $\Lambda$ evts: 4744	COIN pretrig: 2208 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5332	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 05:19 Stop time (from RC): 06:17	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 36,584 k e-K $\Lambda$ evts: 165	SHMS pretrig: 1,256,830 k $\Sigma$ e-K $\Lambda$ evts: 4909	COIN pretrig: 1879 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5333	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 06:17 Stop time (from RC): 07:15	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 37,113 k e-K $\Lambda$ evts: 151	SHMS pretrig: 1,276,305 k $\Sigma$ e-K $\Lambda$ evts: 5060	COIN pretrig: 1907 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

Run Number: 5534	<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: 14 PS2: -1 PS3: 9 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 07:19 Stop time (from RC): 08:20	<input checked="" type="checkbox"/> Settings Verified? <input checked="" type="checkbox"/> HV OK?	HMS pretrig: 35114 k e-K $\Lambda$ evts: 191	SHMS pretrig: 1,208,772 k $\Sigma$ e-K $\Lambda$ evts: 5251	COIN pretrig: 1811 k <input checked="" type="checkbox"/> Data ok <input type="checkbox"/> Junk
Comments:							

30 MA