



University
of Regina

Kaon LT Meeting

Abdennacer Hamdi

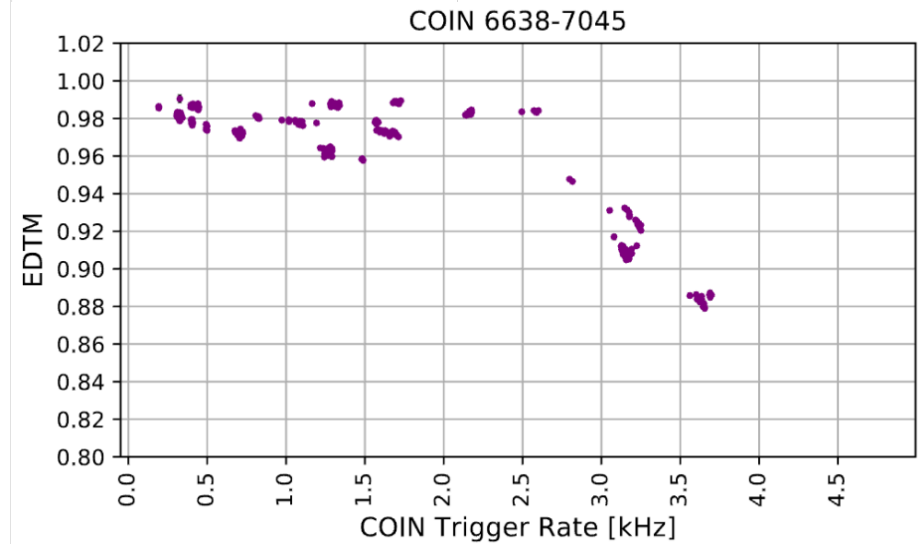
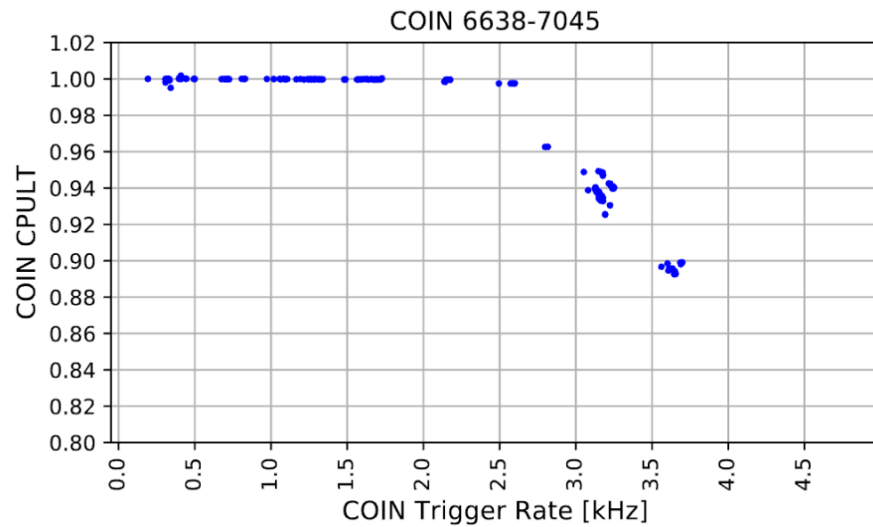
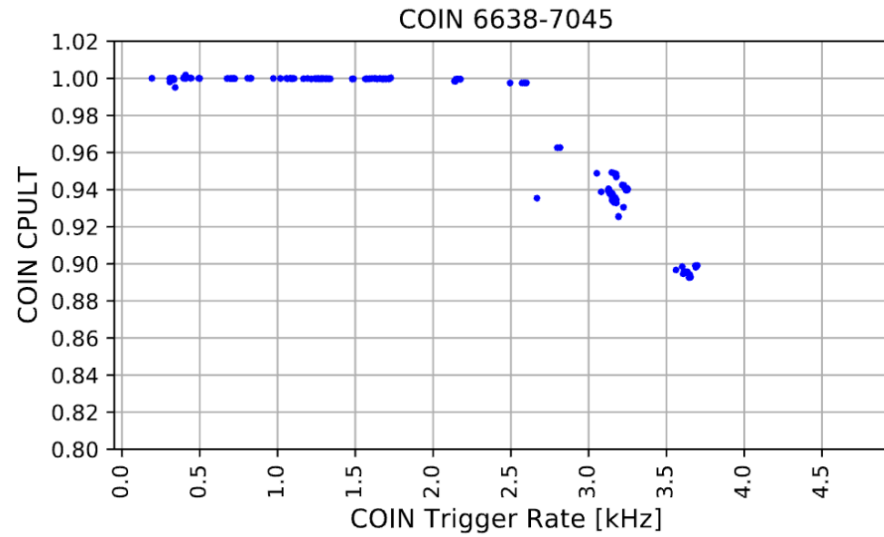
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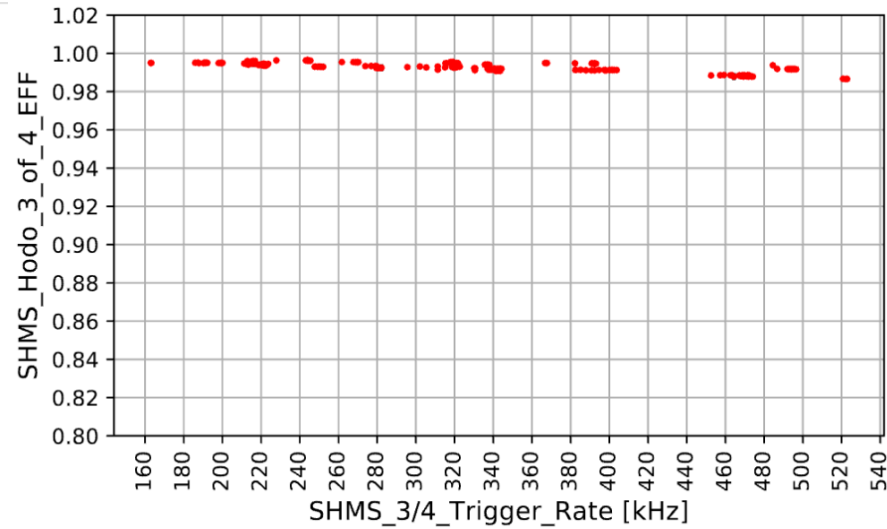
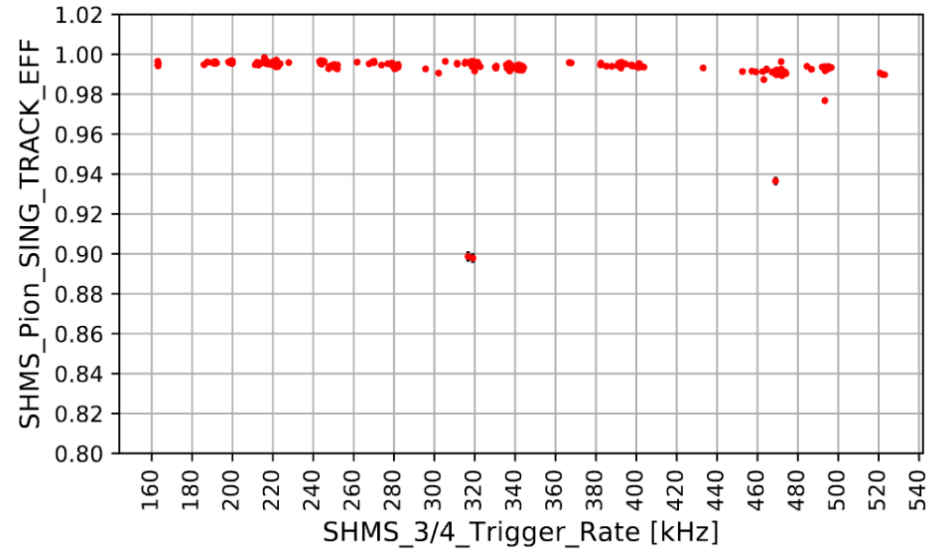
Data

Runs (Winter 2018)	E_e (GeV)	Q^2 (GeV/c) ²	W (GeV)	X	θ_{SHMS} (deg)
6638 - 6857	3.835	0.5	2.40	0.09	6.79 (Center)
6709 - 6775	3.835	0.5	2.40	0.09	9.79 (Left)
6885 - 6971	4.933	0.5	2.40	0.09	6.79 (Center)
6921 - 6978	4.933	0.5	2.40	0.09	9.79 (Left)
6980 - 7045	4.933	0.5	2.40	0.09	6.01 (Right)

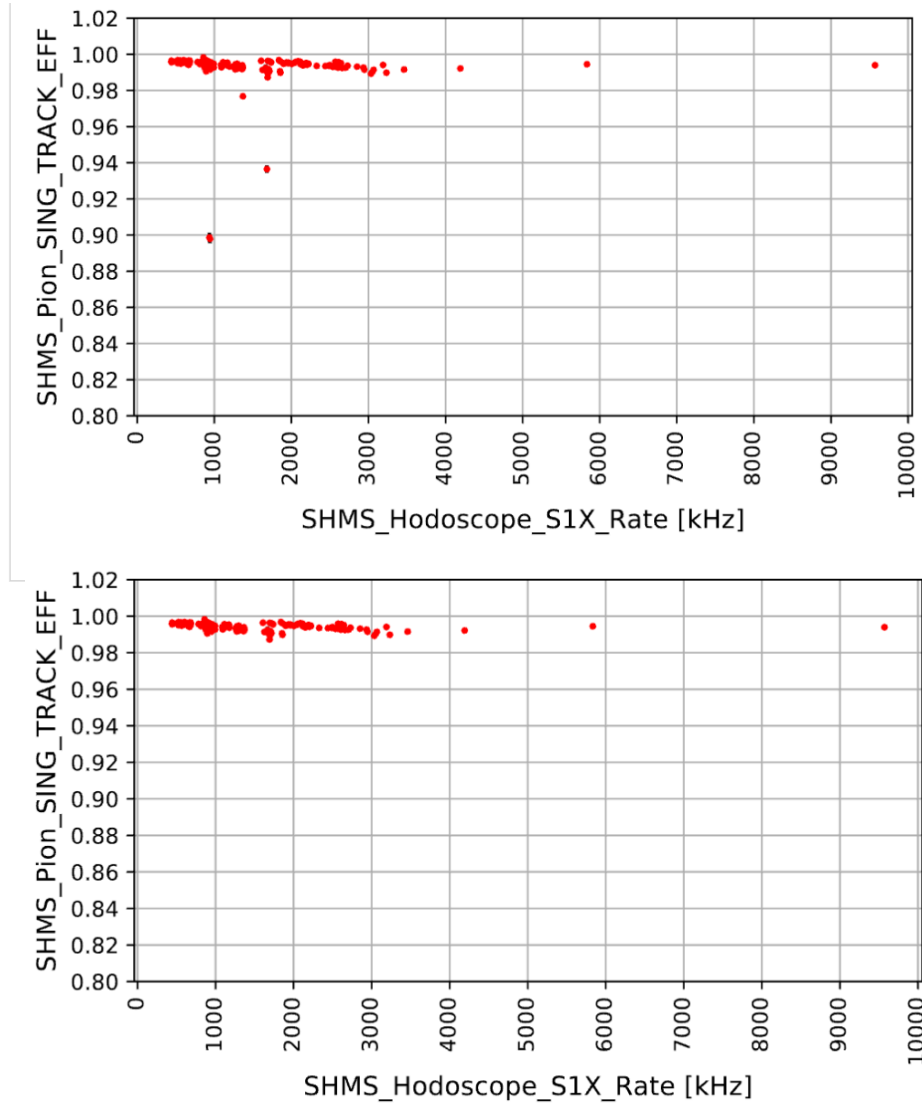
Rates



Rates



Rates



Rates

Run Number: 7016	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 13 PS2: -1 PS3: 11 PS4: -1 PS5: 6 PS6: -1	Start time (from RC): 1:21 Stop time (from RC): 2:23	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 187 k e-K Λ evts: 342	SHMS prescale pretrig: 337 k Σ e-K Λ evts:	COIN pretrig: 8495 k ☒ Data ok ☐ Junk
Comments: <i>Stop 10 min early for power 602, cooling unit</i>							

Run Number: 6981	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐	PS1: 13 PS2: -1 PS3: -11 PS4: -1 PS5: 0 PS6: -1	Start time (from RC): 15:03 Stop time (from RC): 15:48	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 120 k e-K Λ evts: 294	SHMS prescale pretrig: 307 k Σ e-K Λ evts: 643	COIN pretrig: 7494 k ☒ Data ok ☐ Junk
Comments: <i>stopped 10 min early when Be chambers tripped off</i>							

Run Number: 6857	☒ 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): 5:01 Stop time (from RC): 6:01	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: 202 k e-K Λ evts: 186	SHMS prescale pretrig: 192 k Σ e-K Λ evts: 10675	COIN pretrig: 4297 k ☐ Data ok ☐ Junk
Comments: 32pA <i>Missing Ref times P.d.c 39275</i>							

Rates

Run Number: 6779	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ 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>22:02</u> Stop time (from RC): <u>22:57</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>456</u> k e-K Λ evts: <u>163</u>	SHMS prescale pretrig: <u>242</u> k Σ e-K Λ evts: <u>9241</u>	COIN pretrig: <u>345</u> k ☒ Data ok ☐ Junk
Comments: <u>40 uA</u>							

Run Number: 6777	☒ LH2 10cm ☐ LD2 10cm ☐ MT thick 10cm ☐ C 1.5% r.l. ☐ C 0.5% r.l. ☐ _____	PS1: <u>13</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>19:47</u> Stop time (from RC): <u>20:46</u>	☒ Settings Verified? ☒ HV OK? ☒ 50k OK?	HMS prescale pretrig: <u>391</u> k e-K Λ evts: <u>155</u>	SHMS prescale pretrig: <u>207</u> k Σ e-K Λ evts: <u>8911</u>	COIN pretrig: <u>2916</u> k ☒ Data ok ☐ Junk
Comments: <u>→ 40 uA</u>							

Summary

- Run lists are updated, with the outlier runs removed

Run Num	Ratio	Comment	Action
6777	1/70	drop in Trigger rate vs Coin CPULT	removed from the corresponding setting and Prod Run lists
6779	1/70	drop in Trigger rate vs Coin CPULT and EDTM	removed from the corresponding setting and Prod Run lists
6857	1/114	Missing Ref times	removed from the corresponding setting and Prod Run lists
6981	1/54	Chambers tripped off	removed from the corresponding setting and Prod Run lists
7016	1/54	drop in pion tracking efficiency vs SHMS S1X and 3/4 trigger rate	removed from the corresponding setting and Prod Run lists