Hawaiian Muon Beamline: Readout Update



- Generate signals with a function generator (10mHz)
- ~2000 Events
 - Readout not stable, Crashes after some thousand events
- Fig. 1 shows correlation between Hit time from both KLM boards
- Fig. 2 shows the RMS to be ~ 3e5 Cycles (2 ms)
- Fig. 3 shows a strong correlation between timestamps and the delta between the timestamps
- Fig. 4 Linear fit of the Correlation

4434

478.2

Mean

RMS

- Fig. 5 Delta timestamp vs Timestamp after subtracting linear correlation
- Fig. 6 New Delta Timestamp RMS ~500 cycles (4 us)