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Mu2e stopping target monitor data flow

The Mu2e experiment seeks to probe BSM physics through improving upon the limit for neutrinoless muon to electron conversion in a nuclear potential by four orders of magnitude. The current experimental limit of $R_{\mu e} < 7 \times 10^{-13}$ was set by SINDRUM II in 2006. The STM provides the normalisation of the experiment by measuring the rate of muon capture on Mu2e's aluminum target determined by counting the number of X-rays emitted using both high-purity germanium and lanthanum bromide detectors. To make efficient use of the Fermilab computing infrastructure and resources without compromising any physics results, the data collected has to be suppressed online and the peaks determined offline. This poster will provide an overview of the developments made in firmware, data acquisition, data flow control, and the vertical slice test plans for this summer.

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