

Abstract Submitted
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High Voltage Slow Controls for the Silicon Vertex Tracker MIN-
NAE CHABWERA, None — The slow controls program developed at Thomas Jefferson National Accelerator Facility, JLab, for the Silicon Vertex Tracker, SVT, controls and reports high voltage and reads back the current drawn. The SVT is a large acceptance spectrometer designed to detect charged particles and reconstruct their paths in order to determine their momentum. It consists of 66 identical modules, each of which is connected to a High Flex Circuit Board, HFCB. Each HFCB requires 2 high voltage channels. The slow controls LabVIEW program designed for the SVT allows the user to set the threshold settings at 75V required for the HFCB to operate. If the threshold settings for voltage or current are detected outside of the operating range the channel will shut-off at a ramp rate of 5V/sec to preserve the detector. The program includes features for real-time data monitoring and offline data analysis. It will be expanded to control 132 high voltage channels to be used in Hall B at JLab and will expand to measure more parameters such as temperature and humidity.

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None

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