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Beam Position Monitoring in the CSU Accelerator Facility

JOSHUA EINSTEIN, MAX VANKEUREN, STEPHEN WATRAS, Colorado State Univ — A Beam Position Monitoring (BPM) system is an integral part of an accelerator beamline, and modern accelerators can take advantage of newer technologies and designs when creating a BPM system. The Colorado State University (CSU) Accelerator Facility will include four stripline detectors mounted around the beamline, a low-noise analog front-end, and digitization and interface circuitry. The design will support a sampling rate greater than 10 Hz and sub-100 μm accuracy.

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