

Abstract Submitted
for the APR13 Meeting of
The American Physical Society

Forward Silicon Detector for the PHENIX Experiment JIN HUANG, Los Alamos National Lab, PHENIX COLLABORATION — The Forward Vertex Detector (FVTX), which provides precision tracking near the collision vertex in the forward direction, was installed in the PHENIX experiment at RHIC. Each of the FVTX arms has full azimuthal coverage. When combined with the VTX silicon detector, it provides rapidity coverage of 1.2 to 2.2, which matches the acceptance of the two existing PHENIX muon spectrometer arms. Each of the two FVTX arms consists of four planes of silicon mini-strips, with 75 μm pitch in the radial direction and 96 azimuthal segments. In 2012, the detector was successfully commissioned in PHENIX, and physics data were taken in $\sqrt{s} = 510$ GeV $p+p$ and $\sqrt{s_{NN}} = 200$ GeV Cu+Au collisions. The primary observables, detector performance and analysis status will also be presented in this talk.

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Date submitted: 11 Jan 2013

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