

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

Status of the Silicon Stripixel Detector for PHENIX at RHIC

PAUL KLINE, Stony Brook University — A silicon vertex tracker upgrade is under development for the PHENIX detector at the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory (BNL). The detector consists of four barrel layers with $|\eta| < 1.2$ rapidity coverage. The two inner layers are pixel sensors (located 2.5cm and 5cm from the beam line) and the two outer layers are a novel stripixel sensor (at 10cm and 14cm). The detector will allow for an improvement in the primary vertex resolution, determination of secondary vertices from heavy quark production, and construction of jet direction based on particle multiplicities, improving the capabilities of both the heavy ion and spin programs at PHENIX. The current status of the stripixel detector will be presented.

Paul Kline
Stony Brook University

Date submitted: 23 Oct 2009

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