

Abstract Submitted
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Charmed Meson Reconstruction with STAR's Silicon Detectors

JOSEPH VANFOSSEN, SPYRIDON MARGETIS, Kent State University — We report on a new effort to reconstruct the charged-decays of D0 mesons via the direct reconstruction of their decay vertex using the central silicon trackers in the STAR experiment at RHIC. The effort includes the alignment and calibration of the Silicon detectors (SSD and SVT) almost to their specifications as well as the deployment of new reconstruction techniques that try to take advantage of the system's high track pointing accuracy and the implementation of momentum dependent cuts in the candidate-track selection criteria.

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