

Abstract Submitted
for the DNP15 Meeting of
The American Physical Society

DCA Separated Open Heavy Flavor Measurements with Forward Single Muons in Proton-Proton Collisions¹ MATTHEW SNOWBALL, Los Alamos Natl Lab, PHENIX COLLABORATION — The PHENIX Forward Silicon Vertex (FVTX) detector was installed and commissioned in 2012 and has taken several runs of good data. Observations of the displaced vertices of long lived heavy flavor hadrons give the ability to measure the fractions of open charm and beauty production versus various kinematic observables. From these measurements, a baseline for Distance of Closest Approach (DCA) separated R_{AA} in the forward and backward rapidities can be obtained for single muons from open heavy flavor production. I will present the latest status on DCA separated open heavy flavor production and B to J/ψ over J/ψ ratios in proton-proton collisions at 200 GeV and 510 GeV as measured with the PHENIX detector.

¹Matthew Snowball for the PHENIX collaboration

Matthew Snowball
Los Alamos Natl Lab

Date submitted: 09 Jul 2015

Electronic form version 1.4