

Abstract Submitted
for the DNP15 Meeting of
The American Physical Society

Charm and bottom nuclear modification in Cu+Au collisions at $\sqrt{s_{NN}}=200$ GeV CESAR DA SILVA, Los Alamos Natl Lab, PHENIX COLLABORATION — Forward and backward rapidity measurements in heavy ion asymmetric collisions offer the opportunity to study the nuclear modification of particle yields versus path length, time inside the medium, particle densities and different mixtures of cold nuclear matter and quark-gluon plasma effects in the same collision. The PHENIX Experiment at RHIC collected data from a large sample of Cu+Au collisions at $\sqrt{s_{NN}}=200$ GeV and, for the first time, with forward vertex detectors (FVTX) which enabled the study of displaced vertex muon decays from heavy flavor at backward and forward rapidities. Charm and bottom yields can be separated in inclusive single muon yields and bottom yield can also be obtained from J/ψ vertex displacements. The status of this analysis will be presented.

Cesar Da Silva
Los Alamos Natl Lab

Date submitted: 25 Jun 2015

Electronic form version 1.4