Study of Heavy-Flavor Production at Forward Rapidity in Au+Au Collisions at √s_{NN} = 200 GeV

AJEETA KHATIWADA, Los Alamos National Laboratory, PHENIX COLLABORATION — At RHIC energies, heavy flavor quarks are produced predominantly via hard interaction, prior to the formation and evolution of the Quark-Gluon Plasma (QGP). Once produced, they are excellent probes of parton energy loss mechanism and transport coefficients in both cold nuclear matter and the QGP medium. We measure yields as a function of transverse momenta of muons from the decay of heavy flavor hadrons in Au+Au collisions at √s_{NN} = 200 GeV. The measurement will be carried out in forward rapidity region, and a previously published PHENIX measurement in p+p collisions will be used as a baseline for determination of nuclear modification factor. In this talk, current status of the analysis and the techniques applied will be presented.