

Abstract Submitted
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Open Charm Production in $\sqrt{s_{NN}} = 200\text{GeV}$ Cu+Cu collisions at Forward Rapidities IRAKLI GARISHVILI, University of Tennessee, PHENIX COLLABORATION — Open charm production is an important probe of the strongly interacting matter created during the early stages of heavy ion collisions. Single muons are used to tag open charm production via semileptonic decays of D-mesons. The PHENIX detector at RHIC is used to measure single muon production at forward and backward rapidities over the range of $1.1 > |\eta| > 2.25$. PHENIX has previously measured single muon production for p+p collisions at $\sqrt{s_{NN}} = 200\text{GeV}$, which is used as a baseline measurement for calculating the Nuclear Modification Factor (R_{AA}) for heavy ion collisions. The status of the first measurement in Cu+Cu collisions at $\sqrt{s_{NN}} = 200\text{GeV}$ of single muon cross sections and nuclear modification factors as a function of transverse momentum will be presented.

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