

Abstract Submitted
for the SES14 Meeting of
The American Physical Society

Heavy flavor muons at forward rapidities in $\sqrt{s_{NN}} = 200$ GeV $p+p$, $d+A$, and $A+A$ collisions MATTHEW WYSOCKI, Oak Ridge National Lab, PHENIX COLLABORATION — The dynamics of heavy flavor production and suppression in $A+A$ collisions play an important role in unraveling the properties of the quark-gluon plasma produced at RHIC. The related observables offer direct insight into strongly-coupled nature of the medium. It has also become increasingly apparent that the production and suppression in the absence of a hot medium need to be studied in detail, via comprehensive measurements in $p+p$, $p(d)+A$, and $A+A$ collisions of varying size and energy at RHIC and the LHC. I will present the latest heavy flavor invariant yields and nuclear modification factors at forward rapidity in $\sqrt{s_{NN}} = 200$ GeV $p+p$, $d+Au$, and $A+A$ collisions recorded at PHENIX and discuss their implications for our current understanding of heavy flavor production.

Matthew Wysocki
Oak Ridge National Lab

Date submitted: 03 Oct 2014

Electronic form version 1.4