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Heavy flavor muons at forward rapidities in Cu+Au collisions with the PHENIX detector

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The dynamics of heavy quark and their suppression in A+A collisions offers a unique opportunity to study the properties of Quark-Gluon Plasma produced at RHIC. They are produced early in the collision and experience the full evolution of the medium. Studying the related observables in p(d)+A and A+A collisions can allow for the quantification of cold nuclear matter effects and energy loss in the produced hot medium. Asymmetric collisions of heavy nuclei, such as Cu+Au, provide an initial geometrical configuration where an interplay between cold and hot nuclear effects can be explored. Recent measurements of single muon invariant yields and nuclear modification factors at forward rapidities in Cu+Au collisions using the PHENIX detector will be presented.

On behalf of collaboration:

PHENIX

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