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Cold Nuclear Matter Effects on Heavy Quarks from PHENIX

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The flexibility of the Relativistic Heavy Ion Collider has allowed the
PHENIX Collaboration to perform detailed measurements of heavy quark
production in p+p, d+Au, Cu+Cu, and Au+Au collisions at 200 GeV, probing a wide range of temperature and collision geometry.Studies of
d+Au collisions have shown significant and surprising cold nuclear
matter effects on both charmonium and open heavy flavor, which imply
that the initial state baseline for interpreting heavy quark transport
in the hot partonic medium formed in Au+Au collisions is highly modified from the elementary p+p or pQCD shape.This talk will discuss recent measurements of cold nuclear matter effects on heavy quarks, and how they may influence our understanding of the cold nuclear environment and the interpretation of Au+Au data.

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