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Heavy-flavor muon production at forward rapidity in $d+Au$ collisions at $\sqrt{s_{NN}} = 200$ GeV

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The measurement of single muons from semi-leptonic decay of mostly D and B mesons is a well developed method to study heavy quark production at forward rapidity at PHENIX experiment. Such measurement in $d+Au$ collisions in wide rapidity ranges is essential to study initial-state cold nuclear matter effects, e.g. modification of parton distribution function, p_T broadening, and energy loss, on heavy quark production. In addition, comparison to J/ψ results may provide a key constraint to understand the nuclear break-up of quarkonia systems. In this poster, we will present the PHENIX heavy-flavor muon measurements at forward and backward rapidity regions at $\sqrt{s_{NN}} = 200$ GeV and comparison with theoretical models to interpret the results.

On behalf of collaboration:

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