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## Heavy quark production at forward rapidity in d+Au collisions at $\sqrt{s} = 200$ GeV

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The measurement of single muons from the semi-leptonic decay of D and B mesons is a well-developed method for the study of heavy quark production at forward rapidity. Previous PHENIX results from p+p and Cu+Cu collisions at  $\sqrt{s} = 200$  GeV have reported the suppression of heavy quark production in central Cu+Cu collisions at rapidity = 1.65. The measurement of heavy quark production at forward rapidity using d+Au data is crucial for the determination of the initial state effects of heavy ion collisions, leading to an improved understanding of cold nuclear matter effects during the collision. The detailed status of the analysis will be presented.

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