

# 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 heavy quark (D and B) mesons is a well-developed method in PHENIX experiment. 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  $y = 1.65$ . The measurement of heavy quark production at forward(backward) rapidity using d+Au data and comparison with heavy quark results at mid-rapidity are crucial for improved understanding of cold nuclear matter effects during the collision. The detailed analysis method as well as current status will be presented.

## Keywords

Heavy quark, Cold nuclear matter, d+Au collisions

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