

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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