

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

*Thursday 15 November 2012 15:55 (25 minutes)*

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

**Author:** LIM, Sanghoon (Yonsei University)

**Presenter:** LIM, Sanghoon (Yonsei University)

**Session Classification:** Parallel 2C (Chair Kenta Shigaki)