Quarkonia and open heavy-flavor production at STAR

Wednesday, 30 May 2012 12:00 (30 minutes)

Heavy flavor production is a useful tool to study the medium produced in heavy ion collisions. We will present results on production of charm hadrons via the reconstruction of D0 and D* mesons, and compare them to FONLL calculations. The nuclear modification factor of D mesons can then be used to study medium effects. We will also present results on charmonium and bottomonium production. By studying charmonium v2, one can estimate the amount of coupling between heavy quarks to the hot, flowing medium. The Upsilon nuclear modification factor, an important signature of deconfinement, will also be presented.

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