J/Ψ Flow analysis for Au+Au data from PHENIX

ABHISEK SEN, Georgia State University — In 1986 Matsui and Satz predicted that J/Ψ will be suppressed by Quark Gluon Plasma (QGP) due to color screening, which will prevent binding c ¯c pair and lead to J/Ψ suppression [1]. Many different experimental groups have studied the J/Ψ production mechanisms in relativistic heavy ion collisions since then. In recent years, at Relativistic Heavy Ion Collider (RHIC), both PHENIX and STAR collaborations have reported J/Ψ results from Au+Au and p+p collision. The elliptic flow study [2] is one of the most important tools to understand the initial state of matter created at heavy ion collisions. Recent results show a strong quark scaling property of v2 from the measured baryons and mesons at RHIC. These results indicate fast initial state thermalization of the colliding nuclei. In this work, I am going to present the current status of J/ψ flow measurement from its dimuon decay channel at forward rapidity in Au+Au collision at center of mass energy per nucleon nucleon collision √s = 200 GeV.


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