

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

J/ ψ suppression with respect to the reaction plane in Au+Au collisions at $\sqrt{s}=200$ GeV by the PHENIX detector BYUNGIL KIM, Korea University, PHENIX COLLABORATION — The possible formation of a QGP could affect how the initial anisotropy of particles in coordinate space is transferred into momentum space in the final state. Heavy quarkonia are produced dominantly by the gluon fusion at RHIC energy and should have less interactions than particles composed of light quarks. Hence, it would inherit the properties of the underlying heavy quarks and reflects its interaction with the medium, such as its elliptic flow and suppression with respect to the reaction plane. The measured reaction plane dependent J/ ψ yield would be used to determine the azimuthal dependence of the J/ ψ suppression as a function of p_T and centrality, $R_{AA}(p_T, \Delta\phi)$.

Byungil Kim
Korea University

Date submitted: 23 Oct 2009

Electronic form version 1.4