

Abstract Submitted
for the DNP07 Meeting of
The American Physical Society

Transverse Single Spin Asymmetry Measurement with J/Ψ in Polarized p+p Collisions at RHIC HAN LIU, Los Alamos National Lab, PHENIX COLLABORATION — The measurement of transverse single spin asymmetries(A_N) gives us an opportunity to probe the quark and gluon structure of transversely polarized nucleons. PHENIX experiment has collected 2.7 pb^{-1} data in transversely polarized p+p collisions at $\sqrt{s}=200\text{GeV}$ in 2006 run. At RHIC energy, J/Ψ production is dominated by gluon-gluon fusion, thus Collins effect has minimum impact on A_N as the gluon's transversity is zero. Therefore, the measurement of A_N in J/Ψ production offers a good opportunity to gain information on gluon's Sivers effect. Results from 2006 for J/Ψ A_N at forward rapidity will be presented.

Han Liu
Los Alamos National Lab

Date submitted: 02 Jul 2007

Electronic form version 1.4