

Abstract Submitted
for the DNP06 Meeting of
The American Physical Society

Double Longitudinal Spin Asymmetry for Inclusive Jet Production in Polarized p+p Collisions at 200 GeV MURAD SARSOOR, Texas A&M University, STAR COLLABORATION — The STAR experiment at the Relativistic Heavy Ion Collider at Brookhaven National Laboratory is measuring polarized pp collisions at a center of mass energy of $\sqrt{s} = 200$ GeV to determine the polarized gluon distribution in the proton, ΔG , in the kinematic range $0.03 < x_g < 0.3$, via spin asymmetry measurements. Data were collected during 2005, at sampled luminosity of $\sim 3 \text{ pb}^{-1}$, with 40-50% beam polarization. We present run 2005 preliminary results for the double longitudinal spin asymmetry for inclusive jet production at mid-rapidity, along with results from 2003/04. Comparisons to theoretical calculations using deep-inelastic scattering parameterizations for gluon polarization in the nucleon are also presented.

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Date submitted: 05 Jul 2006

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