

Abstract Submitted
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Dijet Cross Section and Longitudinal Double Spin Asymmetry Measurements in Polarized Proton-Proton Collisions at 200 GeV at STAR MATTHEW WALKER, MIT, STAR COLLABORATION — The polarized gluon distribution function of the proton, $\Delta g(x)$, has been constrained by inclusive measurements from polarized proton-proton collisions at RHIC. Correlation measurements, such as the dijet measurement, provide access to the leading order parton kinematics, which provides sensitivity to the shape of $\Delta g(x)$. STAR's large acceptance electromagnetic calorimetry and tracking make it well suited for this measurement. The status of the dijet cross-section analysis from the 2005 and 2006 RHIC data sets and of the longitudinal double spin asymmetry analysis from the 2006 data set, all at mid-rapidity, will be presented.

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