Abstract Submitted
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The Dijet Cross-section Measurement of Polarized Proton-Proton Collision at $\sqrt{s} = 500$ GeV GRANT WEBB, University of Kentucky, THE STAR COLLABORATION — The STAR Spin program aims to measure the gluon helicity distribution $\Delta g(x)$ in the proton, which remains highly unconstrained at small momentum fractions $x_B < 0.05$. Dijet reconstruction in polarized proton collisions at $\sqrt{s} = 500$ GeV will extend these constraints by sampling lower x gluons while also providing more precise information about the partonic kinematics. This contribution will present studies of various jet algorithms and works toward the first measurement of the dijet cross-section from ~ 10 pb^{-1} of data from $\sqrt{s} = 500$ GeV data taken in 2009.

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