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Dijet Longitudinal Double Spin Asymmetry at $\sqrt{s} = 510$ GeV in $\vec{p}\vec{p}$ collisions at STAR SUVARNA RAMACHANDRAN, University Of Kentucky, STAR COLLABORATION — The production of jets in $\vec{p}\vec{p}$ collisions at STAR is dominated by quark-gluon and gluon-gluon scattering processes. The dijet longitudinal double spin asymmetry (A_{LL}) is sensitive to the polarized parton distributions and may be used to extract information about the intrinsic gluon spin contribution (ΔG) to the spin of the proton. The measurement of dijet A_{LL} at $\sqrt{s} = 510$ GeV will extend the current constraints on ΔG to a lower gluon momentum fraction and allow for reconstruction of the partonic kinematics at leading order. A status report on the present work towards the dijet A_{LL} measurement from $\sim 80pb^{-1}$ of $\sim 53\%$ polarized proton data at $\sqrt{s} = 510$ GeV taken during the 2012 RHIC run will be given.

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