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**Di-Jet Cross Section and Longitudinal Double Spin Asymmetry Measurements with Event Kinematics Constraints in Polarized Proton-Proton Collisions at 200 GeV at STAR** TAI SAKUMA, MIT, STAR COLLABORATION — The polarized gluon distribution in the proton,  $\Delta G$ , is of particular interest to the STAR Spin program. While initial studies have focused on inclusive pion and jet analyses, the recent improvements in RHIC luminosity and polarization enable di-jet analysis as the first correlation analysis to constrain initial event kinematics. With its large acceptance electromagnetic calorimetry and tracking system, STAR is well suited for these measurements. We report the status of the measurements of di-jet cross section at mid-rapidity for RHIC 2005 run and A\_LL within the pseudorapidity range from -1 to +2 for RHIC 2006 run.

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