Forward-rapidity $\pi^0$-Charged Particle Correlations at STAR from $p^+ + p$ Collisions at $\sqrt{s} = 200$ GeV

JAMES DRACHENBERG, Texas A&M University, STAR COLLABORATION — RHIC experiments have observed large transverse single-spin asymmetries, $A_N$, in inclusive hadron production at forward rapidity. Extending the analysis beyond inclusive measurements, for example, correlations between produced hadrons at forward rapidities, provides the opportunity to decipher between dynamical contributions to $A_N$, such as the Collins and Sivers mechanisms. Recent analysis at STAR investigates high pseudorapidity $\pi^0$-charged particle correlations from $\sqrt{s} = 200$ GeV polarized proton collisions. The $\pi^0$’s are detected at $2.5 < \eta < 4$ with the Forward Meson Spectrometer, and the charged particles are detected in the same pseudorapidity region with the Forward Time Projection Chamber. The status of the analysis will be discussed.