

Abstract Submitted
for the DNP11 Meeting of
The American Physical Society

Asymmetries in Forward-rapidity π^0 -Charged Particle Correlations at STAR from $p^\uparrow + p$ 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 provides the opportunity to decipher between dynamical contributions to A_N . Asymmetries in two-particle correlations provide access to so-called interference fragmentation functions and proton transversity. Recent analysis at STAR investigates single-spin asymmetries in high-pseudorapidity π^0 -charged particle correlations from $\sqrt{s} = 200$ GeV polarized-proton collisions recorded during 2008 with average fill polarization of 48%. The π^0 's are detected at $2.5 < \eta < 4$ with a Pb-Glass calorimeter known as 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.

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Date submitted: 28 Jun 2011

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