

Abstract Submitted
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Transverse Spin Results from STAR WILLIAM CHRISTIE,
Brookhaven National Laboratory, STAR COLLABORATION — One of the main objectives of the Spin physics program at the Relativistic Heavy Ion Collider at Brookhaven National Laboratory is to study transverse spin effects. Measurements of large Feynman x (x_F) neutral pion production in polarized proton collisions at $\sqrt{s} = 200$ GeV has been reported by STAR. Cross section measurements at $\eta = 3.3, 3.8,$ and 4.0 were found to be consistent with next-to-leading order perturbative QCD calculations. The analyzing power was found to be large and positive at $x_F > 0.3$, and consistent with phenomenological calculations based on the Collins effect, the Sivers effect, and initial-state higher twist contributions. This contribution will summarize these measurements, as well as give an outlook of future STAR semi-inclusive measurements to determine the Transversity and Sivers distribution functions.

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