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Central rapidity Jet transverse single spin asymmetry measurements in proton-proton collisions with sPHENIX

Jet transverse single spin asymmetries, A_N, are only sensitive to the initial state effects as final state effects are not present. They are therefore an excellent tool to single out the quark-gluon and tri-gluon correlation functions that are the higher-twist equivalents to the transverse momentum moments of the Sivers functions for quarks and gluons. sPHENIX has taken transversely polarized proton-proton collision data at $\sqrt{s} = 200\,GeV$ using a large acceptance full electromagnetic and hadronic calorimetry to reconstruct jets. The status of the jet A_N measurements will be presented.

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