

Abstract Submitted
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Single-Spin Asymmetries in SIDIS at JLab HARUT AVAGYAN,
Jefferson Lab — Measurements of spin and azimuthal asymmetries in semi-inclusive processes emerged as an important tool to access Transverse Momentum Dependent (TMD) parton distributions containing information on both the longitudinal and transverse motion of partons inside a fast moving nucleon. CLAS collaboration at Jefferson Lab collected recently approximately 19 billion electron triggers with hydrogen and 7 billion electron triggers with deuterium using solid state ammonia and deuterated ammonia targets. Kinematical dependences of single and double spin asymmetries have been measured for a longitudinally polarized proton target, providing access to transverse momentum distributions of quarks and spin orbit correlations in the nucleon. In this talk we present latest studies of TMDs and discuss newly released results, ongoing activities, as well as planned near term and future measurements.

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