

XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



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As a part of the general nucleon imaging effort, there have been many efforts to access the transverse momentum dependent parton distributions (TMDs) by using the semi-inclusive deep inelastic scatterings (SIDIS) processes. The recently upgraded Continuous Electron Beam Accelerator Facility (CEBAF) at Jefferson Lab (JLab) provides golden opportunities to study them in valence quark region. The TMDs describe the three-dimensional, spin-correlated distributions of quarks and gluons in the nucleon in momentum space. The corresponding SIDIS measurements require high intensity and polarization with large kinematic coverage which will be provided by several different detectors. We will highlight some of the SIDIS results from the 6 GeV era and present an overview of the planned JLab TMD program in the 12 GeV era. This work is supported in part by U.S. Department of Energy under contract number DE-FG02-03ER41231.

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