

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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Jet-based measurement of Sivers and Collins asymmetries at the EIC

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We present predictions and projections for hadron-in-jet measurements and electron-jet azimuthal correlations at the future Electron-Ion Collider. These observables directly probe the quark transversity and Sivers parton distributions, the Collins fragmentation functions, and TMD evolution. This jet-based approach will allow us to avoid the convolution of TMD parton distributions and fragmentation functions, which limits the constraining power of SIDIS measurements. We explore the feasibility of these measurements with detector simulations.

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