

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 374

Type: **Contributed Talk**

Jet-based TMD measurements with H1 data

Thursday, 15 April 2021 12:15 (20 minutes)

Recently, jet measurements in DIS events close to Born kinematics have been proposed as a new probe to study transverse-momentum-dependent (TMD) PDFs, TMD fragmentation functions, and TMD evolution. We report measurements of lepton-jet momentum imbalance and hadron-in-jet correlations in high- Q^2 DIS events collected with the H1 detector at HERA. The jets are reconstructed with the k_T algorithm in the laboratory frame. These are two examples of a new type of TMD studies in DIS, which will serve as pathfinder for the Electron-Ion Collider program.

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Session Classification: Structure function and parton densities

Track Classification: Structure Functions and Parton Densities