

SIDIS in the target fragmentation region

Saturday, 26 April 2025 10:55 (20 minutes)

Lepton-nucleon semi-inclusive deep inelastic scattering (SIDIS) is an important way for accessing nucleon structure. SIDIS can be roughly divided into the current fragmentation region and the target fragmentation region (TFR) according to the kinematic regions of the detected hadron. The factorization of TFR SIDIS requires the introduction of fracture function. In this talk, I will introduce our theoretical progress on TFR SIDIS, including the high-twist effect for the process and the contribution of sub-leading order corrections to the structure functions. I will also briefly talk about the connection between nucleon energy correlator and fracture function.

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Session Classification: 分会场三