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Transverse Momentum Dependent Functions: Challenges and Future Prospects

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Content

Transverse Momentum Dependent Functions (TMDs) encode essential information about both the structure of nucleons and hadronization processes. They cannot be calculated from first principles, instead, one must determine them via phenomenological analyses. Recent multidimensional data in semi-inclusive deeply inelastic scattering (SIDIS) has made it evident that several theoretical issues must be resolved before a reliable extraction of TMDs, within a full QCD picture, is possible. I will discuss about some of these issues as well as some recent and ongoing work to resolve them.

Session

Proton structure, small and large x physics

Primary author(s): Dr. GONZALEZ HERNANDEZ, J. Osvaldo (University of Turin)
Presenter(s): Dr. GONZALEZ, Osvaldo (Old Dominion University Research Foundation)
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