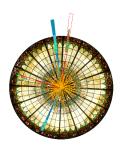
DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and Related Subjects



Dallas, Texas April 27 – May 1, 2015



Contribution ID: 33 Type: not specified

TMD factorization and evolution at large b_T

Tuesday 28 April 2015 09:00 (25 minutes)

In using transverse-momentum-dependent (TMD) parton densities and fragmentation functions, important non-perturbative information is at large transverse position b_T . This concerns both the TMD functions and their evolution. Fits to high energy data tend to predict too rapid evolution when extrapolated to low energies where larger values of b_T dominate. I summarize a new analysis of the issues. It results in a proposal for much weaker b_T dependence at large b_T for the evolution kernel, while preserving the accuracy of the existing fits. The results are particularly important for using transverse-spin-dependent functions like the Sivers function.

Primary author: COLLINS, John (Penn State University)

Presenter: COLLINS, John (Penn State University)

Session Classification: WG6 Spin Physics

Track Classification: WG6 Spin Physics