

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

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TMD factorization and evolution at large b_T

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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.

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