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Relating TMDs and collinear factorization

Tuesday, 4 April 2017 12:00 (20 minutes)

In this talk I will discuss our work (Phys.Rev.D94(2016)034014) on an improved implementation for combining transverse-momentum-dependent (TMD) factorization in semi-inclusive DIS and collinear factorization. TMD factorization is suitable for low transverse momentum physics, while collinear factorization is suitable for high transverse momenta and for a cross section integrated over transverse momentum. The result is a modified version of the standard matching prescription traditionally used in the Collins-Soper-Sterman formalism and related approaches. We briefly discuss how our study of matching between the TMD approach and collinear factorization impacts the study of the 3-D structure of the nucleon.

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