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Power corrections in TMD factorization

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I present the recent studies of power corrections for the transverse momentum dependent (TMD) factorization. A particular emphasis is made on the novel method of TMD operator expansion that yields the TMD factorization theorem on the operator level. This method grants a systematic description of power corrections to TMD factorization, in particular, it naturally introduces the concept of TMD-twist and allows a certain separation of kinematic and genuine power corrections. Also, I present factorized expression at the next-to-leading power (NLP) (at NLO perturbative accuracy), and discuss the evolution properties for TMD distribution of higher TMD-twists.

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