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Understanding the large k_T behavior in TMD PDFs

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The main aspect of factorization relies on both the universality of the distributions as well as their interpretations as describing the internal structure of the hadrons. We present a novel approach which is best suited for hadron structure studies as it is built to both satisfy theoretic constrains originating from their operator definitions, as well as clearly demarcating the perturbative contributions from the nonperturbative ones. Some practical examples in a Drell-Yan phenomenological analysis are studied as well as preliminary results for the Sivers function.

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