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TMD evolution as a double-scale evolution

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Evolution of transverse momentum dependent distributions (TMD evolution) is an evolution with respect to two scales: the renormalization and rapidity scales. The double scale evolution grants a freedom in the definition of physical observables, which naively could lead to ambiguous results. We show that the double-evolution picture has a natural interpretation in terms of evolution potential, and allows the definition of universal (independent on evolution definition) TMD distribution. Altogether, we present a renewed version of the TMD evolution theory, that incorporates also the traditional approach. We also present recent results of phenomenological extraction of TMD evolution.

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