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On the Region of Applicability of the TMD formalism: the impact in phenomenology

In SIDIS, the formalism of TMDs corresponds to a specific partonic picture, in which the observed hadron is produced by the struck quark, via
current fragmentation. For phenomenological applications, it is of prime importance to identify the kinematical region in which
the corresponding factorization theorem can safely be applied. In this talk I will discuss a criterion to determine this regime and will argue that
the rapidity of the final hadron is a more natural variable than the usual hadronic invariant z_h, in particular for the energy ranges of a few GeV^2

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