

# TMD splitting functions in kT-factorization and prospects for using them in the evaluation of TMD distribution functions

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We present an overview of the calculation of transverse momentum dependent (TMD) real emission contributions to splitting functions within kT-factorization. We discuss their properties, such as the limits in which they reduce to well known kernels.

We present an implementation of the splitting functions in a Monte Carlo simulation, based on the Parton Branching method. Results of TMD distribution functions from this implementation are shown.

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