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## Transverse momentum dependent splitting functions from kT factorization

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The formulation of kT factorization is build on factorization of scattering amplitudes in the high energy limit and the resummation of corresponding logarithms. As a consequence its applicability is at first limited to the so-called low x region. Moreover the resulting LO evolution is purely gluonic. Building on the lessons learned from (NLO) BFKL evolution, a possibility to extend the formalism to the region of medium and maybe even large Bjorken x might be to include quarks into the evolution, mimicking in this way the matrix structure of conventional DGLAP evolution. In this contribution we report on recent attempts to calculate TMD quark splitting functions within kT factorization and to construct corresponding extended evolution equations.

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