

Matrix elements and Monte Carlo calculations with k_T -factorization

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Besides parton distribution functions with an explicit dependence on the transverse momentum, k_T -type factorizations require matrix elements with off-shell initial-state partons. We discuss issues regarding their definition, and how they can be calculated efficiently. We also present a complete Monte Carlo program for the calculation of cross sections and event generation for arbitrary processes within k_T -type factorization formulas.

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