

Double parton scattering: evolution and matching

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In double parton scattering (DPS), we consider the limit of perturbative transverse momenta and a large spatial separation between the two hard processes. We discuss the scale and rapidity evolution as well as the matching of transverse momentum dependent double parton distributions onto collinear double parton distributions for processes with a colorless final state. Although the evolution and matching equations (and their derivation) are more elaborate than just doubling the TMD/PDF evolution and matching, we show that the NLO coefficient functions for DPS matching can be recycled from the TMD/PDF matching.

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