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Framework for evolution and resummation in double parton scattering

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Double parton scattering (DPS) describes two colliding hadrons having interactions in the form of two hard processes, each initiated by a separate set of partons. Just as for single parton scattering, the resummation of soft gluons gives rise to a soft function, which is a necessary ingredient for obtaining rapidity evolution equations. For various regions of phase space, I derive the rapidity evolution and the scale evolution of double transverse momentum dependent parton distribution functions (DTMDs) as well as of the p_T -resummed cross section for double Drell-Yan like processes. This contributes to a framework that could be used for phenomenological DPS studies including resummation.

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