

Numerical impact of NLO splitting in double parton distributions

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For short distances between the two probed partons double parton distributions (DPDs) are dominated by a perturbative $1 \rightarrow 2$ splitting which can be calculated in perturbation theory. In this talk I will briefly sketch how this splitting can be computed and then discuss the numerical impact of including the NLO contribution to this splitting. Besides modifying the overall size and shape of DPDs and DPD luminosities, one finds that the NLO contribution is crucial in reducing different kinds of scale uncertainties which are rather large at LO.

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