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Multiple partonic interactions in production of four jets within High Energy Factorization ($15' + 5'$)

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We perform the first study of 4-jet production in a complete kt -factorization framework at the LHC, discussing the onset and relevance of Double Parton Scattering contributions.

We compare our results to those reported by the ATLAS and CMS collaborations for different sets of kinematic cuts. We find that care is necessary when assessing the relevance of the double parton scattering contribution in kt -factorization, as the instability of higher order contributions to the dijet cross section can easily lead to overestimate the suppression with respect to the collinear case.

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