

Off-shell amplitudes and 4-jet production in kt-factorization

Friday, 3 June 2016 12:00 (30 minutes)

We present a framework for the evaluation of tree-level amplitudes with off-shell legs for kt-factorization, based on the BCFW recursion relation, and discuss its recent application to 4-jet production. We evaluate both single and double parton scattering contributions to the cross section and discuss the differences between the results of collinear and kt-factorization, comparing them to the data reported by the ATLAS and CMS collaboration and concluding that an analysis with asymmetric and soft cuts on transverse momenta would be helpful in order to better pin down the double parton scattering contribution.

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