

Leading and sub-leading jet functions and applications

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For many high-energy processes at the LHC involving hadronic final states, one often encounters jet functions in the factorisation theorems which can be used to resum various logarithmically enhanced contributions. The resummation of jet radius logarithms has been studied before for inclusive jet production and exclusive jet production. We investigate what happens in the transition between these cases and examine jet functions for leading, and sub-leading jet production. We will also discuss some phenomenological implications in Higgs + 1 jet production as well as other processes.

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