

Forward jet production at the Large Hadron Collider

We will discuss phenomena of production of forward jet at the LHC.

After brief introduction to high energy factorization we will present matrix elements relevant for production of forward jets focusing on their high energy behavior and dependence on transversal momentum of off shell gluon. We will also investigate effects of angular ordered parton shower and its interplay with matrix elements. Finally phenomenological results which are p_T spectra of produced jets and rapidity dependence will be presented.

Primary author: Dr KUTAK, Krzysztof (University of Antwerp)

Presenter: Dr KUTAK, Krzysztof (University of Antwerp)

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