

# BFKL resummation in heavy-quark pair hadroproduction

*Thursday, November 28, 2019 3:30 PM (20 minutes)*

We consider the inclusive production in proton-proton collisions of two heavy quarks, separated by a large rapidity interval, that can be experimentally investigated at the Large Hadron Collider (LHC) to test QCD predictions in the semi-hard regime. The process is studied in the Regge kinematical region by the Balitsky-Fadin-Kuraev-Lipatov (BFKL) approach. A full resummation of leading energy logarithms and a partial resummation of the next-to-leading ones are performed. Predictions for the cross section summed over the azimuthal angles and for azimuthal correlations are presented.

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**Session Classification:** Thursday 3