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The next-to-leading BFKL for Mueller-Navelet dijets with large rapidity separation and jet veto

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The calculation based on next-to-leading logarithm (NLL) approximation for Balitsky-Fadin-Kuraev-Lipatov (BKFL) evolution is discussed for Mueller-Navelet (MN) dijet production cross section as well as ratios of cross sections with veto as functions of rapidity separation Δy between jets in dijet. The NLL BFKL calculations employ optimal renormalization scale procedure generalized for non-abelian theories by Brodsky-Fadin-Kim-Lipatov-Pivovarov. The veto on additional jet activity above $p_{T\text{veto}}$ is accounted with Banfi-Marchesini-Smye approach. The results are compared to the CMS measurements in proton-proton collisions at $\sqrt{s} = 7$ and 2.76 TeV.

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