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Inverse gluon emission in dilepton production at CMS LHC

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Inverse gluon emission in the dilepton production process in hadron collisions for Large Hadron Collider (LHC) experimental program aimed at exploring the Drell-Yan process are estimated in details. Numerical analysis of inverse emission effects to observable quantities (cross sections and forward-backward asymmetry) is performed in a wide kinematical region including the CMS LHC experiment in Run3/HL regime which corresponds to ultra-high energies and dilepton invariant masses. Effective technics for analysis of different radiative contributions influence on forward-backward asymmetry using two additive relative corrections is suggested.

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