

Breakdown of QCD factorization in hard diffraction

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Production of heavy photons (Drell-Yan), gauge bosons, Higgs bosons, heavy flavors, which is treated within the QCD parton model as a result of hard parton-parton collision, should be treated as a bremsstrahlung process seeing in the rest frame of the target. The main observation is a dramatic breakdown of diffractive QCD factorization due to the interplay between soft and hard interactions, which dominates these hard diffractive processes.

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