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Diffractive Bremsstrahlung in hadronic collisions

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Production of heavy photons (Drell-Yan), gauge bosons, Higgs bosons, heavy flavors and dijets, which is treated within the QCD parton model as a result of hard parton-parton collision, can be considered as a bremsstrahlung process in the target rest frame. In this talk, I will discuss the recent progress and the basic features of the diffractive channels of these processes in the framework of color dipole approach. The main observation is a dramatic breakdown of diffractive QCD factorisation due to the interplay between soft and hard interactions, which dominates these processes. This observation is crucial for phenomenological studies of diffractive reactions in high-energy hadronic collisions.

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