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BFKL Pomeron loops in photoproduction and hadroproduction of J/ψ at large transverse momenta

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We analyze contributions to diffractive photoproduction and inclusive hadroproduction of J/ψ with large transverse momentum coming from cut BFKL Pomeron loops in the corresponding cross sections. In this framework the diffractive photoproduction is described by the diffractive cut of two Pomeron exchange. For the hadroproduction we consider a gluon to J/ψ transition mediated by an exchange of two gluons with a partonic target. After inclusion of the small x evolution, the latter process may be described as an exchange of two cut BFKL Pomerons, and it is related to the diffractive photoproduction. We study in detail properties of the diffractive cut and of the double cut of the Pomeron loop. The obtained results are compared to experimental data on diffractive J/ψ photoproduction at HERA and to the J/ψ hadroproduction data from the LHC.

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