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Non-perturbative effects for the BFKL equation

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Two models for the region of small transverse momenta in the BFKL equation are discussed. In the first of them the gluons are massive as a result of the Higgs mechanism. For the second case the impact parameter space is compactified, which can serve as a model for the confinement based on the dual Meissner effect. Further, the non-Fredholm properties of the BFKL kernel at the collinear kinematics in the t -channel allow us to calculate its eigenvalues in a semi-classical approximation for $N=4$ SUSY in all orders of perturbation theory.

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