Contribution ID: **150**   Type: **not specified**

Non-perturbative effects for the BFKL equation

Sunday, 14 September 2014 09:30 (20 minutes)

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 mechanizm. 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.

Primary author: Prof. LIPATOV, Lev (Petersburg Nuclear Physics Institute)

Presenter: Prof. LIPATOV, Lev (Petersburg Nuclear Physics Institute)

Session Classification: Progress in QCD (I)

Track Classification: Progress in QCD