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## **Euler-Lagrange equations for the high energy effective actions in QCD and gravity**

We review the BFKL approach for the high energy scattering in QCD based on the gluon reggeization. The effective action and the corresponding Euler-Lagrange equations for the reggeized gluon interactions are formulated in a gauge-invariant way locally in the particle rapidities. The BFKL Pomeron is the simplest composite state of reggeized gluons. In N=4 SUSY it is dual to the reggeized graviton living in the 10-dimensional Anti-de-Sitter space. The effective action for the reggeized graviton interactions is presented. The corresponding Euler-Lagrange equations are constructed and their particular solutions are discussed.

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