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Type: **Parallel Session Talk**

On correlators of Reggeon fields in high energy QCD

Tuesday 9 April 2019 14:00 (20 minutes)

We discuss Dyson-Schwinger hierarchy of the equations for the correlators of reggeized gluon fields in the framework of Lipatov's high energy QCD effective action formalism.

The non-linear corrections to the two-field correlators are presented and correspondence between the correlators of reggeized gluon fields and Wilson line operators of longitudinal gluon fields is established, the connection between the JIMWLK-Balitsky formalism and Lipatov's effective action approach is also considered.

We demonstrate mechanisms of the reggeization breaking and present example of the calculations of an one-loop subleading vertex of the reggeized gluons interactions which is responsible for this violation of the gluon's propagator reggeization.

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Session Classification: WG2: Small-x and Diffraction

Track Classification: WG2: Low-x and Diffraction