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On NLO BFKL impact factors from NLO collinear amplitudes

Sunday, 25 September 2022 17:00 (20 minutes)

We construct a framework that may be used to compute NLO kT-dependent impact factors from NLO on-shell parton scattering amplitudes. The key point of the method is an extension to the NLO accuracy of the auxillary parton method commonly used in the LO calculations. With the high energy (Regge) factorization at the NLO, the collinear scattering amplitudes are decomposed into the NLO impact factors and the Green's function coming from the QCD evolution. We describe in detail the treatment in the kT factorization of infrared singularities that appear in the NLO collinear amplitudes.

Presenter: MOTYKA, Leszek

Session Classification: Recent theoretical results on QCD and saturation

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