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Partial twist expansion for DIS and DVCS at small x

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We propose a novel approach to high energy scattering that allows to interpolate between the Bjorken limit and the Regge limit of QCD. It consists in performing a partial twist expansion of cross-sections which allows to resum to all orders higher twists that contribute to gluon saturation at small x. We discuss the case of gluon mediated DIS and DVCS as a first application. In this framework a novel x-dependent gluon distribution is derived whose quantum evolution generalizes BK/BFKL equations to moderate values of x.

Submitted on behalf of a Collaboration?

No

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