

Gluon saturation: toward precision using light front and covariant approaches

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We use the Color Glass Condensate effective theory of QCD at small x to calculate fully inclusive structure functions as well as single and double inclusive hadron production in DIS at small x at the Next to Leading Order (NLO). We show that calculations of NLO corrections in light front perturbation theory and the traditional covariant perturbation theory agree for processes that have been computed in both approaches. We elucidate the need for and outline an approach for going beyond the small x approximation which may be more convenient in light front perturbation theory.

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