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Relation of TMD gluon density to dipole cross section and the saturation effect in DIS

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The new starting TMD gluon density, obtained within the soft QCD model for pp inelastic collisions at low scales μ_0 , is connected directly with the dipole cross section of the deep inelastic ep scattering. The saturation of this cross section at large distances between quark and antiquark in the $q\bar{q}$ dipole or small values of μ_0 is analyzed. The sensitivity of the saturation effect to different kind of initial TMD gluon densities is shown.

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