

Momentum space dipole amplitude for DIS and inclusive hadron production

Friday, 14 September 2012 16:55 (20 minutes)

Summary

The AGBS model, originally developed for deep inelastic scattering applied to HERA data on the proton structure function, can also describe the RHIC data on single inclusive hadron yield for $d + Au$ and $p + p$ collisions through a new simultaneous fit. The single inclusive hadron production is modeled through the color glass condensate, which uses the quark (and gluon) condensate amplitudes in momentum space. The Color Glass Condensate (CGC) is the description of the properties of saturated gluons in the infinite momentum frame in the Regge-Gribov limit. The effective degrees of freedom in this framework are color sources at large Bjorken- x variable and gauge fields at small- x . At high energies

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Session Classification: Saturation

Track Classification: Saturation