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The 187th HENPIC seminar by Prof. Jian Zhou

Title: High energy asymptotic behavior of gluon OAM

Abstract: Gluon generalized parton distribution (GPD) Eg plays an important role in nucleon sipn sum rules. In this talk, I will discuss the small-x evolution of gluon GPD Eg. We found that Eg at vanishing skewness exhibits the Regge behavior identical to the BFKL Pomeron despite its association with nucleon helicity-flip processes. We also consider the effect of gluon saturation and demonstrate that Eg gets saturated in the same way as its helicitynonflip counterpart Hg. Our result has a direct impact on the modeling of Eg as well as the small-x contribution to nucleon spin sum rules.

Summary