

Contribution ID: 22

Type: not specified

## Sub-eikonal corrections and low-x helicity evolution

Tuesday 17 September 2019 17:45 (25 minutes)

Most of the progress in high-energy Quantum Chromodynamics has been obtained within the eikonal approximation and infinite Wilson-line operators. Evolution equations of Wilson lines with respect to the rapidity parameter encode the dynamics of the hadronic processes at high energy. However, even at high energy many interesting aspects of hadron dynamics are not accessible within the eikonal approximation, the spin physics being an obvious example. The higher precision reached by the experiments and the possibility to probe spin dynamics at future Electron Ion Colliders make the study of deviations from eikonal approximation especially timely.

I will present the high-energy sub-eikonal corrections and the low-x helicity evolution through the high-energy Operator Product Expansion.

Author: CHIRILLI, Giovanni A. (University of Regensburg)
Presenter: CHIRILLI, Giovanni A. (University of Regensburg)
Session Classification: Parallel 2

Track Classification: Small-x physics and heavy ions