



Contribution ID: 253

Type: **Parallel Session Talk**

Sub-eikonal spin corrections and g_1 structure function at low- x

Wednesday 10 April 2019 17:15 (20 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 g_1 structure function through the high-energy Operator Product Expansion.

Author: CHIRILLI, Giovanni Antonio (University of Regensburg)

Presenter: CHIRILLI, Giovanni Antonio (University of Regensburg)

Session Classification: Joint WG2+WG7: Small- x and Diff + Future of DIS

Track Classification: WG2: Low- x and Diffraction