

Seminarium Studium Doktoranckiego NCBJ

Thursday, 4 March, 9:00

<https://www.gotomeet.me/NCBJmeetings/phd-seminar>

Speaker:

Arantxa Tymowska (Szkoła Doktorska NCBJ)

Title:

Quarks at NEik accuracy in the CGC: Forward quark-nucleus scattering

Abstract:

Within the theory of Color Glass Condensate we derived the Next-to-Eikonal corrections to the background quark propagator from relaxing two Eikonal conditions. These two different corrections to the eikonal approximation combine together and provides a gauge covariant expression for the quark propagator at NEik accuracy. We then apply our results to quark (or antiquark) scattering on a nucleus at NEik accuracy, considering both unpolarized cross section and helicity asymmetry.