**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.