

Seminarium Szkoły Doktorskiej NCBJ

Thursday, 17 March, 9:00

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

Speaker:

Arantxa Tymowska (Szkoła Doktorska NCBJ)

Title:

DIS dijet production beyond eikonal accuracy

Abstract:

We derive subeikonal corrections to the quark propagator assuming that the quark is propagating through the whole medium in order to study DIS dijet production. We take into account NEik (Next-to-Eikonal) corrections from previous results for splitting before the medium and we calculate a new contribution coming from splitting inside the medium at NEik. This time we include not only corrections that contribute to Next-to-Eikonal accuracy that are due to considering a finite longitudinal width target and the interaction of the quark with the transverse component of the background field, here we also include the dynamics of the target. We then apply these corrections to the DIS dijet cross section for both inclusive and diffractive production.