QCD@LHC2022



Contribution ID: 19

Type: not specified

NLO computation of diffractive double hadron production with large pTin the saturation framework

Wednesday 30 November 2022 15:00 (15 minutes)

The cross-sections of diffractive double hadron photo- or electroproduction with large pT, on a nucleon or a nucleus, are calculated to NLO accuracy.

A hybrid formalism mixing collinear factorization and high energy kt factorization, more precisely the shockwave formalism, is used to derive the results.

The cancellation of divergences is explicitly shown, and the finite parts of the NLO differential cross-section are found. We work in arbitrary kinematics such that both photoproduction and leptoproduction are considered, making the results usable in order to detect saturation at both the future EIC or already at LHC, using UPC.

Declaration

I certify that I have checked that I am authorised to submit the abstract with the listed co-authors with their current affiliations

Change of Speaker

I understand that change of speaker is allowed provided that no participant gives more than one talk. Otherwise, we will ask the speaker to choose between one or the other abstract to be presented.

Authors: LI, Emilie (IJCLAB); SZYMANOWSKI, Lech (National Centre for Nuclear Research); FUCILLA, MICHAEL; Dr WALLON, Samuel

Presenter: LI, Emilie (IJCLAB)

Session Classification: Parallel B - WG1: 1

Track Classification: WG1: Higher Order and Resummed Calculations