

XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



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QCD Jets in DIS

Thursday, April 19, 2018 9:00 AM (24 minutes)

We consider lepton-jet correlations in deep inelastic scattering (DIS) as a unique probe of the nucleon/ nuclei tomography. We demonstrate the relevant QCD factorization in terms of transverse momentum dependent quark distributions (TMDs), soft functions and jet functions associated with the final state jet. All relevant large logarithms are resummed to next-to-leading logarithmic (NLL) order. In addition, we consider inclusive jet production and we present numerical results relevant for a future Electron-Ion Collider (EIC).

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