



Contribution ID: 10

Type: not specified

Dijet photoproduction in lepton-nucleus scattering at the EIC

Wednesday, 27 January 2021 13:05 (10 minutes)

We calculate the cross section of inclusive dijet photoproduction in electron-nucleus scattering in the kinematics of the EIC using next-to-leading order (NLO) perturbative QCD and nCTEQ15 and EPPS16 nuclear parton density functions (nPDFs). We establish kinematic reaches in the distributions in the dijet average transverse momentum, the average rapidity, the observed nuclear and photon momentum fractions and also examine the sensitivity of the calculated dijet cross section to nuclear modifications of nPDFs.

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Session Classification: Jets at EIC

Track Classification: Jets