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Dijet photoproduction at the LHeC, HE-LHeC and FCC

Tuesday, 24 March 2020 14:30 (20 minutes)

We present NLO QCD predictions for dijet photoproduction on heavy nuclei for three future collider options at CERN, the LHeC, its high-energy (HE) version and the electron-hadron/nucleus version of the FCC, and compare them to our previous predictions for the EIC. We focus on the potential of these colliders to constrain nuclear parton densities, in particular in the small-x region, based on the current uncertainties of the nCTEQ and EPPS analyses. These global fits are also compared to predictions from the leading-twist nuclear shadowing model.

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