

Nuclear effects in UPCs and implications for EIC

Tuesday 23 September 2025 14:45 (25 minutes)

We will present an overview of phenomenological studies of nuclear effects in photon-nucleus scattering using heavy ion ultraperipheral collisions (UPCs) at the LHC. In particular, we will discuss how exclusive charmonium and inclusive dijet production in Pb-Pb UPCs at the LHC can help to better constrain nuclear parton distribution (PDFs) in the small- x shadowing region. We will also discuss implications of these results for the studies of small- x partons and QCD dynamics at the Electron-Ion Collider (EIC).

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