

Exclusive vector meson production in electron –ion collisions at the future colliders

mercredi 15 septembre 2021 16:02 (1 minute)

The exclusive vector meson production in electron –ion collisions for the energies of the future colliders is investigated. We present predictions for the coherent and incoherent Φ and J/ψ production in eAu collisions considering the possible states of nucleon configurations in the nuclear wave function and taking into account of the non - linear corrections to the QCD dynamics. The cross sections and transverse momentum distributions are estimated assuming the energies of the Electron - Ion Collider (EIC), Large Hadron Electron Collider (LHeC) and Future Circular Collider (FCC –eh). Our results indicate that a future experimental analysis of these processes can shed light on the modeling of the gluon saturation effects and constrain the description of the QCD dynamics at high energies.

Auteurs principaux: RODRIGUES SENA, Celso (Universidade Federal de Pelotas); Prof. GONÇALVES, Victor P. (Universidade Federal de Pelotas); ERNANI MARTINS NETO, Daniel (UFRJ)

Orateur: RODRIGUES SENA, Celso (Universidade Federal de Pelotas)

Classification de Session: Poster