Contribution ID: **67** Type: **Poster**

Photoproduction of light vector mesons in the dipole picture

Tuesday, March 11, 2025 5:54 PM (2 minutes)

We study the photoproduction of light vector mesons considering both the proton and the nucleus as targets. Utilizing the dipole picture and wave functions obtained via AdS/QCD, we were able to describe the HERA γp data and extend the analysis to the nuclear case by employing the Glauber–Gribov formalism. This formalism is supplemented by an effective nuclear suppression factor, R_G, which accounts for the gluon shadowing correction. Our results are compared to recent $PbPb \to \rho PbPb$ data from the LHC, and predictions for other light vector mesons are presented.

Author: TREBIEN, Haimon (Universidade Federal de Santa Catarina)

Co-author: OLIVEIRA, Emmanuel Gräve de (UFSC, Brazil)

Presenter: TREBIEN, Haimon (Universidade Federal de Santa Catarina)

Session Classification: Poster session