

# What do we learn from exclusive vector meson production from ep to AA collisions

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The exclusive production of vector mesons in reactions on protons and nuclei induced by real and virtual photons has been the source of much knowledge on the structure of both the produced mesons as well as the targets.

Recently ultraperipheral collisions of protons and nuclei at the LHC have provided data on light vector mesons ( $\rho$  and its excited states) as well as heavy quarkonia  $J/\psi$ ,  $\psi(2S)$  in an unprecedented range of energies.

We will discuss the current status of the theoretical description of these data and their implications on future experiments at electron-ion colliders.

## Collaboration

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