

## **EIC for exclusive processes in the region of large $x > 0.05$**

*Wednesday, 11 December 2024 09:25 (20 minutes)*

The future Electron-Ion Collider (EIC) will be a powerful tool for studying the internal structure of nucleons and nuclei at low  $x$ , where gluons dominate and current knowledge remains limited. Investigating exclusive reactions, such as Deeply Virtual Compton Scattering (DVCS) or Deeply Virtual Meson Production (DVMP), will enable access to the Generalized Parton Distributions (GPDs) of nucleons in this low- $x$  region.

The EIC kinematic coverage will also extend into the  $x > 0.05$  range, overlapping with measurements from Jefferson Lab. This overlap will be invaluable for cross-checking results and gaining deeper insight into the transition from the gluon-dominated regime to the quark-dominated regime in the three-dimensional structure of protons and neutrons.

In this presentation, I will outline the  $x$ - $Q^2$  coverage of exclusive reactions at the EIC and highlight key projections for higher  $x$  values.

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**Session Classification:** Spatial Structure, Mechanical Properties, and Emergent Hadron Mass