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## Nucleon Structure Functions at Large-x

*Monday, 19 August 2024 14:40 (25 minutes)*

In this talk, I will review the recent progress in the nucleon structure functions at large-x region. The ratio of F2 structure functions between the proton and neutron is of particular interest as it's closely related to the d/u ratio, and its behavior at  $x \rightarrow 1$  limit provides insights into the dynamics of quarks in non-perturbative region. The PDFs are poorly constrained in large-x low  $Q^2$  region due to the limited data and theoretical uncertainties when extracting the neutron structure functions from nuclear target data. The data from recent and planned fixed target experiments at Jefferson Lab can significantly improve constraints on PDFs at large-x.

### Funding Agency

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