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Update on the CJ (CTEQ-Jefferson Lab) PDFs

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The CJ (CTEQ-Jefferson Lab) collaboration has developed next-to-leading order parton distribution functions (PDFs) determined by global fits to a wide variety of data for hard scattering processes. The analysis includes target mass and higher twist corrections needed for the description of deep inelastic scattering data at large x and low Q^2 , nuclear corrections for deuterium targets, and a functional form that accommodates a data-driven d/u ratio at the highest x values. The PDF sets correspond to three different models for the nuclear effects, and provide a more realistic uncertainty range for the d quark PDF compared with previous fits. Applications, for instance to weak boson production at colliders, have been investigated. Comparisons to Drell-Yan data will also be discussed.

Primary author: ACCARDI, Alberto (Hampton U. and Jefferson Lab)

Presenter: ACCARDI, Alberto (Hampton U. and Jefferson Lab)

Session Classification: WG1: Structure Functions and Parton Densities

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