

# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 548

Type: **Contributed Talk**

## CJ15 global PDF analysis with new electroweak data

*Tuesday, 13 April 2021 09:45 (20 minutes)*

We present recent updates from the CTEQ-Jefferson Lab (CJ) global analysis of parton distribution functions with a new set of electroweak measurements. Electroweak measurements in proton collisions provide unique access to quark flavor separation and strangeness in the proton. In particular, recent W and Z boson measurements from the STAR experiment at RHIC are included which provide additional constraint to the light sea quarks near the valence regime while the LHC data probe smaller x region. In this talk, the impact of the new data sets on parton distribution functions will be presented with a emphasis given to the flavor asymmetry of the light quark sea at large-x region.

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**Session Classification:** Structure function and parton densities

**Track Classification:** Structure Functions and Parton Densities