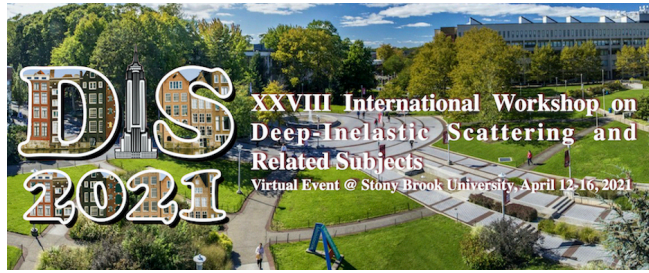


XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 548

Type: **Contributed Talk**

CJ15 global PDF analysis with new electroweak data

Tuesday, April 13, 2021 9:45 AM (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.

Primary authors: PARK, Sanghwa (Stony Brook University); ACCARDI, Alberto (Hampton U. and Jefferson Lab); OWENS, Joseph F. (Florida State University); JING, Xiaoxian

Presenter: PARK, Sanghwa (Stony Brook University)

Session Classification: Structure function and parton densities

Track Classification: Structure Functions and Parton Densities