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CJ15 global PDF analysis with new electroweak data

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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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