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Systematic uncertainty from the implementation of higher twists in QCD analyses

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We present recent updates from the CTEQ-JLab (CJ) global analysis of parton distribution functions. In particular, we focus on the higher-twist effects and off-shell nucleon modification in deuteron targets. We show that how theoretical biases may be introduced from the treatment and implementation choices of these corrections. The impact of their interplay on the extraction of d-quark PDF and structure functions at large- x will be discussed.

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