

Abstract Submitted
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Extracting the Proton Structure Function Moments from World Data PETER MONAGHAN, Hampton University — We present an extraction of the lowest three moments of the proton structure functions F_L and F_2 from available world data between $Q^2 = 0.75$ and 45.0 $(\text{GeV}/c)^2$. This analysis leverages in particular new data from DESY at low Bjorken x and from Jefferson Lab at high x , allowing the moments to be determined relatively free from uncertainties due to extrapolations into unmeasured regions. The moments are compared with several parton distribution function parameterizations.

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