

Abstract Submitted
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Comparing Quark Distribution Moments Extracted from Experimental Data to Precision Lattice QCD Calculations¹ PETER MONAGHAN, Christopher Newport Univ — Thanks to advances in Lattice QCD (LQCD), calculations of the moments of quark flavor Parton Distribution Function (PDF) combinations are now available. These precision calculations can be compared to quark distribution moments extracted from experimental data, specifically using the difference between the proton and neutron F_2 structure function moments. Details of the analysis and the resulting comparison with numerous different LQCD calculations will be presented. This work is supported in part by NSF grant PHY-1812369.

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