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Comparative study of parton distribution functions of proton

Study of parton distribution functions (PDFs) has led to a better understanding of the partonic structure of hadrons and the proton structure function in deep inelastic scattering. Knowledge of parton densities within the hadrons is vital to predict the hard-scattering process results. Owing to theoretical and experimental limitations, PDFs cannot be computed from first principles. The global analysis of PDFs, therefore, requires an unrelenting endeavour. The aim of the present work is to have a comparative study of the PDF plots using APFEL, a PDF evolution library. This paper also discusses the graphical analyses as well as comparisons of PDF sets in a wide range of momentum fraction x.

Submitted on behalf of a Collaboration?

No

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