

Nucleon PDFs: precision meets replicability

Wednesday, 1 November 2023 11:00 (30 minutes)

In the first part of the talk, I will review the recent progress on nucleon parton distributions in the global QCD analysis. In the second part, I will discuss the important role of epistemic uncertainties on PDFs in the increasingly common situation when other experimental and theoretical uncertainties are small. The AI techniques may complicate, rather than simplify, estimation of such uncertainties. Future comparisons of nucleon and other PDFs against predictions from lattice and nonperturbative QCD must balance between the precision and replicability of results.

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