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Improved constraints on nPDFs with nCTEQ

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As we strive for higher precision Standard Model predictions, a detailed knowledge of the PDFs is critical to interpret hadronic processes at LHC and EIC. New data from both proton and heavy ion beams can impose improved PDF constraints, as well as provide insights as to the optimal means to organize the QCD expansion. The recently released updates of the nCTEQ15 nPDFs reflect some of these advances. These efforts, together with complementary approaches such as Lattice QCD, will contribute toward incisive comparisons of data with theory as we validate our understanding of the Standard Model and search for deviations which might signal evidence of “new physics.”

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