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Global analysis of nuclear PDFs with LHC vector boson, single inclusive hadron and heavy quark data

Saturday, 9 July 2022 10:25 (15 minutes)

We present the current global analysis of nuclear parton distribution functions (PDFs) with the nCTEQ approach. Recent LHC data on W/Z-boson, single-inclusive hadron (SIH) and heavy quark/quarkonium (HQ) production are shown to constrain not only the gluon density down to $x \geq 10^{-5}$, but to also influence the strange quark density. The consistency with neutrino deep-inelastic scattering (DIS) and charm dimuon production experiments, the impact of the underlying proton PDFs and of target mass and other corrections is also discussed.

In-person participation

Yes

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