

Revealing the fundamental character of the strong force: From PDFs to the underlying QCD.”

Friday, May 24, 2024 9:25 AM (25 minutes)

With the HL-LHC and EIC on the horizon, high-precision measurements are paramount to both SM and BSM studies. As PDF uncertainty is often a limiting factor, our goal is not only to ‘fit’ PDFs but also to better understand the underlying process at the precision level. We describe ongoing projects within both the nCTEQ and BNL-based SURGE project as we explore and characterize the full hadronic spectrum from pions and protons to heavy nuclei.

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Session Classification: Collider: Belle, PDF