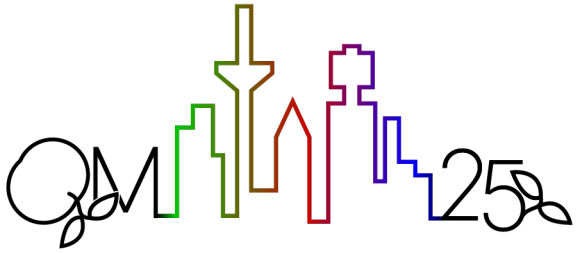

Contribution ID: **736** Type: **Oral**

Studies of nucleon structure at LHCb

Monday 7 April 2025 16:35 (20 minutes)

The LHCb detector's forward geometry provides unprecedented access to
the very low regions of Bjorken \textit{x} inside the nucleon. With full particle ID and a fast DAQ, LHCb is able to fully reconstruct plentiful charged particles and neutral mesons, as well as relatively rare probes such as heavy quarks, providing a unique set of constraints on nucleon structure functions. This contribution will discuss new LHCb measurements sensitive to the low-\textit{x} structure of nucleons, and discuss the impact of recent LHCb measurements that dramatically reduce nPDF uncertainties.

Category

Experiment

Collaboration (if applicable)

LHCb

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Session Classification: Parallel session 4

Track Classification: Initial state of hadronic and electron-ion collisions & nuclear structure