



Contribution ID: 386

Type: Oral

Constraining the low x structure of nuclei with LHCb

Tuesday 5 September 2023 16:30 (20 minutes)

The LHCb detector's forward geometry provides unprecedented access to the very low regions of Bjorken 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 recent LHCb measurements sensitive to the low- 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: Initial State

Track Classification: Initial state