



Contribution ID: 208

Type: Talk

Probing the valence quark region of nucleons with Z bosons at LHCb

Wednesday 15 June 2022 11:10 (20 minutes)

The unique forward coverage of the LHCb spectrometer allows the valence quark distributions of protons and nuclei to be probed with unprecedented precision. In this high- x region, both the flavor content and structure of the nucleon's parton distribution functions remain relatively poorly known. New LHCb measurements of Z +charm jet production could be indicative of a valence-like intrinsic-charm component in the proton wavefunction, and measurements of Z production in p Pb collisions provide new constraints on the partonic structure of nucleons bound inside nuclei. Here we will discuss these new LHCb measurements and comparisons with state-of-the-art parton distribution function calculations.

Present via

Online

Author: LI, Hengne (South China Normal University (CN))

Presenter: LI, Hengne (South China Normal University (CN))

Session Classification: PA-Other topics

Track Classification: Other topics