



Contribution ID: 122

Type: oral

Hard probes production in pPb collisions at LHCb

Wednesday 13 January 2021 19:05 (20 minutes)

Within the p-Pb data sample collected by the LHCb detector at $\sqrt{s_{NN}} = 8.16$ TeV, a rich set of open charm hadrons is observed with abundant statistics.

Thanks to the LHCb forward acceptance that is complementary to general purpose detectors, with excellent performance in particle reconstruction and identification, these charm states are studied down to zero p_T with overwhelming precision.

In this talk, we present latest measurements of charm mesons in pPb collisions by LHCb. Among them, comparisons between theory predictions and data regarding the double charm production are made. In addition, the collaboration has measured the χ_c states and the Z boson in pPb data for the first time at the LHC, which are ideal probes for the so-called cold nuclear matter effect such as nuclear PDFs and comover interactions..

Authors: RICCIARDI, Stefania (Science and Technology Facilities Council STFC (GB)); Mr LUO, Yiheng (Tsinghua University (CN))

Presenter: Mr LUO, Yiheng (Tsinghua University (CN))

Session Classification: PDF

Track Classification: Partonic structure of protons and nuclei