

QPT 2019

Enshi, China

Contribution ID: 101

Type: not specified

Prompt Open Charm Production at 5 TeV Proton-lead Collisions in LHCb

Summary

Production cross sections of prompt Λ_c^+ and D^0 are measured at $\sqrt{s_{NN}} = 5.02$ TeV proton-lead collisions with the data samples collected in LHCb at 2013, corresponding to an integrated luminosity of 1.06 ± 0.02 nb^{-1} (0.52 ± 0.01 nb^{-1}) in the forward (backward) configuration. The charmed baryon to meson ratio and forward-backward production asymmetry are also measured at both forward and backward rapidities and compared to theoretical predictions.

Primary author: 杨, 迪 (清华大学工程物理系近代物理研究所)

Co-author: Dr ZHU, Xianglei (Tsinghua University)

Presenter: 杨, 迪 (清华大学工程物理系近代物理研究所)