

11th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Beitrag ID: 96

Typ: Poster

Measurement of non-prompt D^0 production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE

Dienstag, 28. März 2023 18:15 (2 Stunden)

Measurements of the production of hadrons containing heavy quarks (charm and beauty) allow a study of cold nuclear matter (CNM) effects such as gluon saturation, shadowing and energy loss in p-Pb collisions. Understanding these effects is important for the proper interpretation of results in Pb-Pb collisions. In addition, the measurements provide the possibility to investigate the hadronisation mechanism.

In this poster, the first measurement of production cross section and nuclear modification factor of the D^0 originating from beauty hadron decays, called non-prompt D^0 , at midrapidity in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ALICE detector will be presented. The non-prompt baryon-to-meson yield ratio Λ_c^+/D^0 will be discussed as well.

Experiment/Theory

ALICE

Affiliation

Central China Normal University

Hauptautor: ZHANG, Mingyu (Central China Normal University)

Vortragende(r): ZHANG, Mingyu (Central China Normal University)

Sitzung Einordnung: Poster Session

Track Klassifizierung: Heavy flavor and quarkonia