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Typ: **Poster**

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

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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

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Track Klassifizierung: Heavy flavor and quarkonia