

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



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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  $\Lambda_c^+/D^0$  will be discussed as well.

### Experiment/Theory

ALICE

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**Sitzung Einordnung:** Poster Session

**Track Klassifizierung:** Heavy flavor and quarkonia