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## $D^0$-Meson $R_{AA}$ in PbPb Collisions at $s_{NN}$=5.02TeV and Elliptic Flow in pPb Collisions at $s_{NN}$=8.16TeV with CMS (Article) (Open Access)

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## Abstract

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The study of charm production in heavy-ion collisions is considered an excellent probe for the properties of the hot and dense medium created in heavy-ion collisions. Measurements of $D^0$-meson nuclear modification factor can provide strong constraints into the mechanisms of in-medium energy loss and charm flow in the medium. The measurement of $D^0$-meson elliptic flow in pPb collisions helps us understand the strength of charm quarks coupling to significantly reduced systems which demonstrate hydrodynamic properties. In this paper, the measurements of the $D^0$-meson nuclear modification factor in PbPb collisions at 5.02 TeV together with the new measurement of $D^0$-meson elliptic flow in high multiplicity pPb collisions at 5.02 TeV using the two-particle correlation method will be presented.
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