

Measurement of electrons from heavy flavour decays in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE

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In heavy-ion collisions, charm and bottom (heavy flavour) quarks are produced primarily in the initial, hard partonic interactions. They successively interact with the hot and dense Quark-Gluon Plasma (QGP) expected to be formed in such collisions.

Therefore, measurements of heavy flavour production provide relevant information on the properties of the QGP.

This talk presents measurements by the ALICE Collaboration of electrons from heavy flavour decays at central rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV.

Electrons are identified using several detectors of the ALICE central barrel.

The nuclear modification factor and the azimuthal anisotropy (v_2) of inclusive electrons from heavy flavour decays as a function of transverse momentum will be presented.

Keywords

heavy flavour

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