

Measurement of heavy-flavour decay muon production at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ALICE experiment

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The main goal of the ALICE experiment is the study of the properties of the strongly-interacting matter at very high energy density which is formed in ultra-relativistic heavy-ion collisions at the LHC. Heavy-flavours (charm and beauty) have an important role in the investigation: being produced in the early stage of the collision, they are sensitive probes of the Quark-Gluon Plasma and allow one to study the parton-medium interaction.

The ALICE experiment measured heavy-flavour production in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV in different decay channels and rapidity ranges. After a short description of the ALICE muon spectrometer, the latest results of open heavy-flavour measurements in the semi-muonic decay channels at forward rapidities ($2.5 < y < 4$) will be presented. A particular emphasis will be placed on the measurement of the nuclear modification factor as a function of transverse momentum and centrality, with respect to a pp reference at the same center of mass energy.

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