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Measurement of heavy-flavour decay muon production at forward rapidity in Pb-Pb collisions at sqrt(sNN) = 2.76 TeV with ALICE

Friday, 16 November 2012 12:00 (30 minutes)

Heavy flavours (charm and beauty) are expected to provide essential information on the properties of the high-density strongly-interacting system formed in the early stages of high-energy heavy-ion collisions. In particular, the investigation of modifications of heavy-flavour transverse momentum yield will shed light on the nature of the parton-medium interactions, while the measurement of their collective flow provides insights on the possible thermalization of heavy quarks in the medium.

ALICE is the experiment at the LHC mainly dedicated to the study of nucleus-nucleus collisions. At forward rapidity (2.5 < y < 4), the production of open heavy flavours is measured via their semi-muonic decay channels in the Forward Muon Spectrometer. After a short description of the apparatus, the latest results on the pT-differential nuclear modification factor RAA and elliptic flow of muons from heavy-flavour decays in Pb-Pb collisions at sqrt(sNN) = 2.76 TeV will be presented.

Primary author: Dr PILLOT, Philippe (Laboratoire de Physique Subatomique et des Technologies Associees)

Presenter: Dr PILLOT, Philippe (Laboratoire de Physique Subatomique et des Technologies Associees)

Session Classification: HF decays leptons