Measurement of D^0 -meson elliptic flow in Pb-Pb collisions at $\sqrt{s_{\rm NN}}$ =5.02 TeV with ALICE.

Produced in hard-scattering processes in the initial stage of the collision, heavy quarks probe the whole evolution of the deconfined system (Quark-Gluon Plasma) formed in ultra-relativistic heavy-ion collisions. The measurement of the azimuthal anisotropy of D-meson production is crucial to understand charm quark inmedium energy loss and its coupling to the system. ALICE measured a positive D-meson elliptic flow in Pb-Pb collisions at $\sqrt{s_{\rm NN}}$ =2.76 TeV at LHC, which suggests that charm quarks with low transverse momentum are influenced by the collective motion of the system. The measurement of D⁰- meson elliptic flow in Pb-Pb collisions at $\sqrt{s_{\rm NN}}$ =5.02 TeV obtained with data from run 2 at the LHC will be presented.

Preferred Track

Open Heavy Flavors

Collaboration

ALICE

Author: ROSSI, Andrea (Universita e INFN, Padova (IT)) Presenter: ROSSI, Andrea (Universita e INFN, Padova (IT)) Session Classification: Poster Session