

## Measurement of $D^0$ -meson elliptic flow in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ 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 in-medium energy loss and its coupling to the system. ALICE measured a positive D-meson elliptic flow in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV at LHC, which suggests that charm quarks with low transverse momentum are influenced by the collective motion of the system. The measurement of  $D^0$ -meson elliptic flow in Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV obtained with data from run 2 at the LHC will be presented.

### Preferred Track

Open Heavy Flavors

### Collaboration

ALICE

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