

# Open-charm meson elliptic flow measurement in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE at the LHC.

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A Large Ion Collider Experiment (ALICE) is one of the four major experiments at the Large Hadron Collider (LHC), and it is dedicated to the study of ultra-relativistic heavy ion collisions, with the goal of investigating the properties of the high-density state of QCD matter produced in these collisions.

The study of D meson production azimuthal anisotropy and the measurement of their elliptic flow ( $v_2$ ) can provide insight on the degree of thermalization of charm quarks in the medium and on the hadronization mechanism.

We present the measurement of the D+, D0 and D\*+ meson  $v_2$  in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV at the LHC with ALICE. We discuss the details of the analysis and we show the results obtained from data samples collected in 2010 and 2011.

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