Type: Oral presentation

## Open-charm meson elliptic flow measurement in Pb-Pb collisions at √sNN = 2.76 TeV with ALICE at the LHC.

Monday, 28 May 2012 17:30 (20 minutes)

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 (v2) 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 v2 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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Session Classification: Parallel IIA: Heavy flavour