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The measurement of Elliptic flow of Identified particles in Pb-Pb collisions at 2.76 TeV with ALICE detectors

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The study of the properties of strongly-interacting nuclear matter at extreme temperature and energy densities, Quark-Gluon Plasma (QGP) predicted by Quantum Chromo Dynamics is one of the important subjects in ultrarelativistic nuclear collisions. The measurement of azimuthal anisotropy has given crucial knowledge of the produced medium such as the equation of state (EOS), and the difference between baryon and meson elliptic flow at intermediated pT has been associated with the existence of a phase with partonic degrees of freedom in the initial stages of heavy-ion collisions. Furthermore v2 through wide pT range will serve the essential base line to study other topics, such as the measurement of jet fragmentation into identified particles. In the talk, I will present the elliptic flow result of identified particles separated by combined PID method based on TPC and TOF detectors in ALICE experiment with full data sets including 2011 data.

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