

Jets structure in Pb–Pb collisions at LHC energies

Thursday, 11 November 2010 17:00 (0:30)

Abstract content

Modifications of the structure of jets produced in ion-ion collisions represent a very sensitive tool to study the interactions of partons with the medium. Partonic energy loss manifests itself as a decrease of the number of particles carrying a high fraction of the jet energy and, the additional radiated energy, increases the number of low-energy particles.

We present an analysis of jets produced in ion-ion collisions at LHC energies. Predictions with two different Monte Carlo simulation models (PYQUEN and q-PYTHIA) for the parton energy loss, are analyzed together with modification of the jet structure.

Summary

Primary author(s) : Ms. DOMÍNGUEZ JIMÉNEZ, Isabel (Instituto de Ciencias Nucleares UNAM)

Presenter(s) : Ms. DOMÍNGUEZ JIMÉNEZ, Isabel (Instituto de Ciencias Nucleares UNAM)

Session Classification : Session II LHC.SM.BSM

Track Classification : LHC physics: Standard Model and Beyond