



Contribution ID: 442

Type: Oral Presentation

Inclusive jet spectra in 2.76 TeV Pb-Pb collisions from the ALICE experiment

Tuesday, August 14, 2012 6:05 PM (20 minutes)

Measurements of high-pt particle production in heavy-ion collisions at RHIC have shown that medium-induced energy loss affects the partons produced in the early stage of a heavy-ion collision. The increased initial production cross section for partons at LHC energies makes fully reconstructed jets available in a wide kinematic range, which allows for a differential investigation of parton energy loss. Partonic energy loss allows us to access important observables for the study of the hot deconfined nuclear matter produced in heavy ion collisions. The inclusive cross-section of reconstructed jets using the ALICE tracking detectors and electromagnetic calorimeter is presented from data collected during the 2.76 TeV Pb-Pb runs. The procedures used to reconstruct jets and extract them from a fluctuating background are discussed. The results will also be compared with jet yields from proton-proton collisions, which allows quantification of the medium-induced quenching effects.

Primary author: ALICE, Collaboration (CERN, Geneva, Switzerland)

Co-author: REED, Rosi Jan (Yale University (US))

Presenter: REED, Rosi Jan (Yale University (US))

Session Classification: Parallel 2B: Jets (Chair P. Jacobs)