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Jet fragmentation and jet properties in 2.76 TeV Pb+Pb collisions using the ATLAS Detector at LHC

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The recent measurements of jet suppression at LHC indicate a presence of “jet quenching” – strong energy loss of energetic jets in hot and dense QCD medium which has been already observed at RHIC experiments. We present a measurement of jet properties which sheds more light on the mechanism of jet energy loss. We will discuss the results of measurement of longitudinal, and transverse structure of jets, as well as the spectra, and multiplicities of charged particles constituting jets. The measurement has been performed using 158 ub^{-1} of lead-lead collision data provided at a nucleon center-of-mass energy of 2.76 GeV by the Large Hadron Collider and collected by the ATLAS Detector during November and December 2011.

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