

Measurements of Jet Production and Jet Fragmentation in $\sqrt{s_{NN}} = 2.76$ TeV Pb+Pb Collisions with the ATLAS detector at the LHC

The LHC has opened a new kinematic regime for the jet measurements in heavy ion collisions. With the factor of 14 increase in collision energy compared to RHIC data, new insights have already been achieved. The observation of centrality-dependent di-jet asymmetry measured by ATLAS and CMS is strongly suggestive of jet quenching – strong energy loss of parton traversing a hot and dense QCD matter. In this poster we will concentrate on details of single-jet and di-jet measurements in ATLAS, in particular on jet energy resolution and background fluctuations. We will also present results on jet fragmentation.

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