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Dijet asymmetry in PbPb collisions with the ATLAS detector

Monday, 12 September 2016 16:30 (20 minutes)

The phenomenon of events containing highly asymmetric dijet pairs is one of the most striking results in heavy ion physics. It has provided the first direct observation of in-medium jet energy loss at the LHC. Detailed measurements of centrality-dependent dijet imbalance in sqrt(sNN)=2.76 TeV \PbPb collisions using data collected in the 2011 LHC heavy ion run are presented. The new analysis fully corrects to the particle level. The results show a centrality-dependent modification of the dijet asymmetry distribution accompanied by an unmodified angular correlation between two jets in the dijet system. Detailed studies of the dijet asymmetry as a function of the leading jet transverse momentum and jet radius are presented. The reference measurement of the dijet asymmetry in the \pp collisions at the same center of mass energy is also shown.

Summary

To be confirmed by ATLAS - speaker is waiting to get authorizes as an ATLAS speaker ...

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