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Dijet imbalance in 2.76 TeV PbPb collisions in CMS

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Jet production in PbPb collisions at a nucleon-nucleon center-of-mass energy of 2.76 TeV is studied with the CMS detector at the LHC. Jets are reconstructed using the energy deposited in the CMS calorimeters. A large dijet imbalance is observed in central PbPb collisions, which reduces in the more peripheral collisions. This observation is consistent with a jet quenching scenario, where the parton loose energy propagating through the hot and dense QCD medium. Detailed studies of the jet properties and jet-hadron correlations will be presented.

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