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Jet fragmentation functions in PbPb and pp collisions at 2.76 TeV with CMS

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The jet fragmentation function of inclusive jets with $p_T > 100$ GeV/c in PbPb collisions is measured for reconstructed charged particles with $p_T > 1$ GeV/c within the jet cone. A data sample of PbPb collisions collected in 2011 at a center of mass energy of $\sqrt{s_{NN}} = 2.76$ TeV corresponding to an integrated luminosity of $L_{int} = 129 \mu\text{b}^{-1}$ is used. The results for PbPb collisions as a function of collision centrality are compared to reference distributions based on pp data collected at the same collision energy. For the most central collisions a significant rise of the PbPb/pp fragmentation function ratio for the softest fragmentation products with $p_T < 3$ GeV/c is observed.

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