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Measurement of jet production in central Pb-Pb collisions at √sNN = 2.76 TeV using semi-inclusive hadron-jet distributions

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The ALICE collaboration at the LHC presents a measurement of jet production rates recoiling back-to-back from a high pT trigger hadron. The observable is the difference between normalized recoil jet spectra for two hadron pT trigger intervals. This approach allows the removal of the large combinatorial jet background in heavy ion events in a model-independent way, while preserving collinear safety and a low infrared cutoff (150 MeV) for the coincidence recoil jet population. The jet recoil yield is measured over a wide pT range for different choices of jet cone radius. The azimuthal distribution of recoil jets is also explored. The measurements are compared to a calculation of the same observable for pp collisions using Next-to-Leading Order perturbative QCD, and to predictions of Monte Carlo models incorporating jet quenching.

Keywords

jets, recoil, pQCD, energy loss, Pb-Pb, azimuthal distribution, ALICE, LHC

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