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Jet modification studies down to low p_T and large radius with ALICE

The energy-loss of high-momentum jets, as they traverse the hot and deconfined quark-gluon plasma (QGP) produced in heavy-ion collisions, is one of the key observables used to characterize medium properties. In particular, the ability of the medium to dissipate the lost energy of the jet provides vital information on the transport properties of the QGP. The dissipative power of the medium can be probed by comparing the energy loss of jets with different radii. In this talk, we present new ALICE measurements in Pb–Pb collisions at $\sqrt{s_{\rm NN}}$ = 5.02 TeV, extending the reach of large radius jets to low transverse momenta, using an event-mixing method to correct the uncorrelated background. Comparison of these measurements to theoretical calculations provide new insight into the mechanisms underlying jet quenching and the transport of energy in the QGP medium.

Secondary track

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