

jet-like near-side peak shapes in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with ALICE

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In central heavy-ion collisions at the LHC hot and dense matter is formed in which outgoing partons suffer significant energy loss. The quenched energy seems to dominantly reappear at low and intermediate p_T , a p_T region where collective effects dominate and jet reconstruction is not feasible. To characterize in-medium energy loss in this p_T region, we analyse two-particle angular correlations of charged particles using the ALICE detector. Correlations having their origin in collective effects are subtracted using an eta-gap method. The shape and magnitude of the remaining jet-like peak are studied to characterize effects of energy loss occurring in the hot and dense medium. We compare results from central collisions with those from peripheral collisions and pp collisions at the same center-of-mass energy. Further, we compare to Monte Carlo models.

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