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Jet-medium interactions in Pb-Pb collisions

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Previous experimental measurements from nuclear collisions have indicated modifications of jets by interaction with the medium created in the collision. Observables from particle correlations in the ALICE detector continue to provide access to key properties of the hot deconfined nuclear matter. New results from two- and three-particle number and transverse momentum correlations are presented. Specifically, correlation function properties are characterised as a function of transverse momentum and centrality and for different charge combinations. Fourier decompositions are performed, the jet-like peak is characterised, and identified particle ratios are studied in the jet-like peak and compared to those in the bulk. These results suggest strong modifications of the peak shape and particle ratios in central collisions, compared to proton-proton or peripheral data. Model comparisons are included to assist interpretation of these results.

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