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Studies of Jet Quenching with Jet-Track Correlations at CMS

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The jet quenching phenomenon has been studied extensively to assess the properties of the Quark Gluon Plasma. Quenching manifestations appear in a variety of experimental observables, showing medium-induced changes to the jets observed in heavy ion collisions with respect to reference measurements in vacuum-like proton-proton collisions. Studying properties of reconstructed jets via two-dimensional angular correlations of all particles produced in the collisions with respect to jet(dijet) axis, allows simultaneously to assess the medium induced modifications to the jet shapes, fragmentation, extending these measurements to large angles, as well as to explore the angular patterns of energy flow due to quenching. Final results of the charged particle densities and energy flow about the jet direction as a function of relative azimuth and relative pseudo-rapidity from PbPb and pp collisions recorded by the CMS will be presented. Contributions to the event-wise jet-hadron correlations from medium-induced modifications of jets, and the effects of potential medium response to the jet propagation will be discussed.

Summary

Presentation type

Oral

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