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Study of energy-energy correlator of jets in PbPb collisions at CMS

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Energy-energy correlator has the advantage of isolating physics of different angular scales, which has attracted a lot of interest recently to study it in heavy-ion environments. Any modification from proton-proton reference can reveal hints about the inner workings of the quark-gluon plasma. In this presentation we will present the first measurement of the energy-energy correlator of jets in heavy ion collisions using lead-lead data at 5.02 TeV collected by CMS. We observe significant modifications over the pp reference and discuss the implications of these observations, along with future directions.

Category

Experiment

Collaboration

CMS

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