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Study of in-medium momentum broadening with photon-jet momentum correlations in PbPb collisions at 5.02 TeV in the CMS experiment

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Studies of jet energy loss and momentum broadening with photon-jet momentum and angular correlations will be presented, with PbPb data at 5.02 TeV collected by the CMS detector. Photon-jet events provide a means of probing in-medium jet energy loss with good constraints on the initial parton kinematics and flavor. Studies of momentum and angular correlations in photon-jet events can enable precision measurements of jet quenching effects, such as energy loss and momentum broadening, which are important towards a full understanding of the underlying mechanisms of jet quenching.

Collaboration (if applicable)

CMS

Track

Initial State

Contribution type

Contributed Talk

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