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Type: **Parallel Talk**

Probing properties of the medium using jet substructure techniques in pp and PbPb collisions at 5.02 TeV with CMS

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We present recent results on measurements of jet substructures using grooming techniques with pp and PbPb data collected with the CMS detector at a center-of-mass energy of 5.02 TeV per nucleon pair. Jet grooming techniques are used to focus on the hard structure of the jet by extracting the two subjects corresponding to the hardest parton splitting. This allows to study the properties of medium-induced gluon emissions and the evolution of partons through dense QCD matter. The hard jet structure is also sensitive to the role of (de)coherent gluon emitters. Results and prospects of the transverse momentum balance, mass and angular difference of the two hard subjects over a wide range of jet transverse momentum and various collision centrality selections are discussed.

Content type

Experiment

Collaboration

CMS

Centralised submission by Collaboration

Presenter name already specified

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