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Jet Substructure through Splitting Functions in pp and PbPb collisions with CMS

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A measurement of the hardest splitting of a parton with high transverse momentum in proton-proton and PbPb collisions at a center-of-mass energy of 5.02 TeV with the CMS detector is presented. For this analysis, a jet grooming technique is used to isolate the large scale structure of the jet. The measurement of this hard splitting probes the virtuality evolution of a parton in the medium, as well as the role of (de)coherent gluon emitters. The splitting functions in PbPb collisions are measured as function of the transverse momentum of the jet and collision centrality and are compared with the reference spectra from pp collisions.

Summary

Presentation type

Oral

Primary author: VERWEIJ, Marta (CERN)

Presenter: VERWEIJ, Marta (CERN)

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