

# 10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



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## Measurement of jet nuclear modification factor with large radius in PbPb collisions at 5.02 TeV with the CMS experiment

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Partons are colored probes that interact with the quark-gluon plasma (QGP). By studying jets, the observable final state product of partons, we can improve our understanding of the interaction mechanism between partons and the QGP. Jet nuclear modification factor (RAA) is a simple yet profound observable that measures the amount of suppression with respect to a reference of proton-proton collisions at the same nucleon-nucleon center-of-mass energy. CMS has measured, for the first time in heavy-ion collisions, the RAA for inclusive jets up to a resolution parameter of 1.0, with PbPb data collected at 5.02 TeV. The result complements well both the traditional jet observables and jet substructure observables.

### Collaboration (if applicable)

CMS

### Track

Jets and High Momentum Hadrons

### Contribution type

Contributed Talk

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