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Jet reconstruction and measurements of jet substructure in heavy ion collisions with CMS

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Measurements of jet substructure are useful tools for the understanding of the mechanism of jet quenching. Using those multi-scale probes, the results of jet fragmentation functions, jet shape and jet spectra could be used to search for possible medium response and to quantify the properties of the Quark-Gluon Plasma within the theoretical models. In this poster, jet reconstruction, background subtraction, and jet substructure extraction methods used in CMS analyses are presented. The results are compared to theoretical model calculations and implications from various jet substructure measurements using electroweak bosons, hadrons and jets are also summarized.

Content type

Experiment

Collaboration

CMS

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