Laboratoire LEPRINCE-RINGUET
Ecole polytechnique IN2P3/CNRS

Séminaire

Jet classification techniques in CMS at Run 2

Jet reconstruction, identification and classification is of prime interest in an hadronic environnement such as the LHC. During Run 2, algorithms were developed in order to discriminate between quark and gluon induced jets, to separate jets emerging from the decay of light, charm and bottom quarks, and to identify large jets produced from the decay of heavy resonances. Such algorithms have benefited from new strategies such as the use of deep learning techniques. Increased performances are now allowing to probe new physics processes thought to be unreachable at hadron colliders.

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