



Contribution ID: 275

Type: **Parallel session talk**

Jet substructure measurements in CMS

Monday 26 July 2021 15:15 (15 minutes)

Various measurements related to the study of hadronic jets substructure in proton collisions at 13 TeV with the CMS experiment are presented. The differential jet production cross section as a function of the jet mass and transverse momentum is shown in events with a Z boson plus jet topology, with and without the soft radiation within a jet removed by a jet grooming algorithm. Measurement of jet substructure observables describing the distribution of particles within quark- and gluon-initiated jets, are carried out with both dijet and Z plus jet event samples. The cross section of hadronically decaying W/Z bosons identified using jets with a large cone radius at large transverse momenta together with jet substructure identification criteria, are also presented.

Collaboration / Activity

CMS

First author

Email

Authors: CMS; CHATTERJEE, Suman (Austrian Academy of Sciences (AT))

Presenter: CHATTERJEE, Suman (Austrian Academy of Sciences (AT))

Session Classification: T06: QCD and Hadronic Physics

Track Classification: QCD and Hadronic Physics