

# DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Type: **Parallel talk**

## Jet substructure measurements in CMS

*Tuesday 28 March 2023 15:00 (20 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.

### Submitted on behalf of a Collaboration?

Yes

### Participate in poster competition?

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**Session Classification:** WG4

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