

Phenomenology 2021 Symposium



Contribution ID: 1229

Type: **not specified**

Searches for vector-like quarks at CMS

Tuesday 25 May 2021 14:15 (15 minutes)

We present results of searches for vector-like quarks using proton-proton collision data collected with the CMS detector at the CERN LHC at a center-of-mass energy of 13 TeV. Single and pair production of vector-like quarks are studied, with decays into a variety of final states, containing top and bottom quarks, electroweak gauge and Higgs bosons. The presented searches make use of a wide variety of reconstructed objects, allowing to explore diverse signatures from multi-leptonic to fully hadronic. We set exclusion limits on the vector-like quark masses and cross sections, and for combinations of the vector-like quark branching ratios.

Summary

Author: FABOZZI, Francesco (Universita e sezione INFN di Napoli (IT))

Presenter: FABOZZI, Francesco (Universita e sezione INFN di Napoli (IT))

Session Classification: BSM III