

Search for new resonances coupling to third generation quarks at CMS

Wednesday, 29 July 2020 18:00 (20 minutes)

We present an overview of searches for new physics with top and bottom quarks in the final state, using proton-proton collision data collected with the CMS detector at the CERN LHC at a center-of-mass energy of 13 TeV. The results cover non-SUSY based extensions of the SM, including heavy gauge bosons or excited third generation quarks. Decay channels to vector-like top partner quarks, such as T' , are also considered. We explore the use of jet substructure techniques to reconstruct highly boosted objects in events, enhancing the sensitivity of these searches.

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Secondary track (number)

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Session Classification: Beyond the Standard Model

Track Classification: 03. Beyond the Standard Model