



Contribution ID: 144

Type: **not specified**

Search for heavy BSM particles coupling to third-generation quarks at CMS

Monday 19 May 2025 17:30 (15 minutes)

We present results from searches for resonances with enhanced couplings to third generation quarks, based on proton-proton collision data at a center-of-mass energy of 13 TeV recorded by CMS. The signatures include single and pair production of vector-like quarks and heavy resonances decaying to third-generation quarks. A wide range of final states, from multi-leptonic to entirely hadronic is covered. Jet substructure techniques are employed to identify highly boosted heavy SM particles in their hadronic decay modes.

Mini Symposia (Invited Talks Only)

Plenary (Invited talks only)

Author: PATHAK, Atanu (Purdue University Northwest (US))

Presenter: PATHAK, Atanu (Purdue University Northwest (US))

Session Classification: Electroweak

Track Classification: Electroweak, Higgs, and Top Quark Physics