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Search for exotic resonances with top quarks

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In many models of physics beyond the Standard Model the coupling of new physics to third generation quarks is enhanced. We present a review of searches for heavy particles beyond the standard model decaying to final states with top and bottom quarks. This includes searches for heavy gauge bosons and excited states. Several final states originating from the top are considered and the event reconstruction is optimized accordingly. We use data collected with the CMS experiment during the year 2012, in proton-proton collisions at the LHC at a centre-of-mass energy of 8 TeV.

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