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Search for exotic heavy quark partners

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We present searches for massive top and bottom quark partners at CMS using data collected at $\sqrt{s}=7$ and 8 TeV. Such partners can be seen in 4th generation models, or can be found in models predicting vector-like quarks to solve the Hierarchy problem and stabilize the Higgs mass. The searches span a range of final states, from multileptonic to entirely hadronic, and limits are set on mass and production cross sections as a function of branching ratios.

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