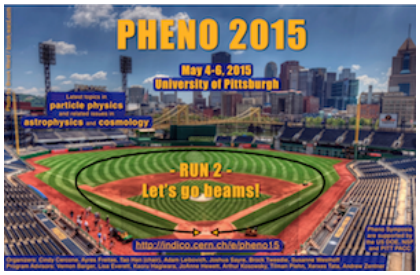

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Search for vector-like quarks at the LHC using the CMS detector

Tuesday 5 May 2015 16:30 (15 minutes)

We present recent results from the CMS experiment of searches for massive vector-like top and bottom quark partners using data collected in proton-proton collisions at centre-of-mass energy of sqrt(s)=8 TeV. These partners can be found in models addressing the hierarchy problem to stabilize the mass of the Higgs boson. The searches span a range of final states, from multi-lepton to entirely hadronic. All observations are consistent with the standard model, and limits are set on the production cross sections of the vector-like quarks.

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