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Search for heavy fermionic top partners decaying to same-sign dileptons at 13 TeV

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With the discovery of the Higgs Boson during Run 1, one of the most important questions to answer during Run 2 is the naturalness problem. Composite Higgs theories answer the naturalness problem by regulating the quadratic divergences to the mass of the Higgs boson via fermionic top partners. Often predicted in such models is a top partner with charge 5e/3 which can decay to the extremely clean same-sign dilepton final state. Further, such a particle is typically the lightest of the top partners predicted and hence represents a very well motivated search. Results using 2.2 /fb of data from the CMS experiment at 13 TeV will be presented.

Auteur principal: M. RICHARDSON, Clint (Boston University)

Orateur: M. RICHARDSON, Clint (Boston University)
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