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Search for New physics with the detector CMS at LHC

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One of the most challenging problems of the Standard Model (SM) is the mass of the Higgs boson that diverges by taking the loop contributions into account. The decay of new particles like Vector-Like Quarks (VLQs) could be an interesting explanation as the final state in SM particles is well understood. We will present here the decay of a VLQ T' in a quark top and a Higgs boson in a dileptonic final state. This new analysis that has never been done before is performed thanks to the CMS detector at LHC.

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