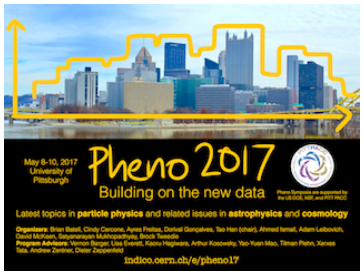

Contribution ID: **441** Type: **parallel talk**

Search for new resonances coupling to third generation quarks at CMS

Monday 8 May 2017 15:45 (15 minutes)

We present a search for new massive particles decaying to heavy-flavour quarks with the CMS detector at the LHC. The prominent signature is the resonant production of top quark pairs. Decay channels to vector-like top partner quarks, such as T', are also considered for the first time. We use proton-proton collision data recorded at a centre-of-mass energy of 13 TeV. The search is performed in both hadronic and semileptonic decay channels of the top quark or of the top-partners. Due to the high momentum range in which these objects are produced, specific reconstruction algorithm and selections are employed to address the identification of these boosted signatures.The results are presented in terms of upper limits on the model cross section.

Summary

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