

# Search for scalar top quark pair production in the top corridor region

*Friday 31 July 2020 13:42 (3 minutes)*

A search for scalar top quark pair production at the LHC is presented. This search targets a region of parameter space where the kinematics of top squark pair production and top quark pair production are very similar, because of the mass difference between the top squark and the neutralino being close to the top quark mass. The search is performed with the full run 2 data set of proton-proton collisions at a centre-of-mass energy of 13 TeV, collected by the CMS detector, using events containing one electron-muon pair with opposite charge. A DNN algorithm is used to separate signal from background.

## Secondary track (number)

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**Session Classification:** Beyond the Standard Model - Posters

**Track Classification:** 03. Beyond the Standard Model