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DNN used in the search for scalar top quark pair production in the top corridor region

A parametric DNN algorithm is used to separate signal from background in the search for scalar top quark pair production at the LHC. 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.

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