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Search for $t\bar{t}$ resonances below 1 TeV in the semileptonic final state

We present a search for the production of heavy resonances decaying into top-antitop quark pairs at the CMS Experiment. The data correspond to an integrated luminosity of 19.6 fb^{-1} at $\sqrt{s} = 8 \text{ TeV}$. We consider all events containing one muon or electron and at least two jets in the final state. We present results from the search optimized for $t\bar{t}$ production close to the kinematic production threshold.

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