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Search for Baryon Number Violating Top Quark Decays in pp Collisions at $\sqrt{s}=8$ TeV

A search for top quark decays that violate baryon number conservation is performed using pp collisions produced by the LHC at $\sqrt{s}=8$ TeV. The top quark decay would in this scenario produce one lepton (either a muon or an electron), two jets and no missing transverse energy. Data are collected using the CMS detector and correspond to an integrated luminosity of 19.6 fb⁻¹. Two event selections, one for each considered lepton flavor, are defined and optimized for top quarks produced in pairs with one of them experiencing the baryon number violating decay and the other decaying hadronically in three jets.

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