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Search for Pair Production of the Scalar Top Quark in Mu+Tau Final States

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We present a search for the pair production of scalar top quarks (stop_1), the lightest supersymmetric partners of the top quarks, in ppbar collisions at a center-of-mass energy of 1.96 TeV, using data corresponding to an integrated luminosity of 7.3 fb^-1 collected with the D0 experiment at the Fermilab Tevatron Collider. Each scalar top quark is assumed to decay into a b quark, a charged lepton, and a scalar neutrino (snu). We investigate final states arising from stop_1 $\beta_{\nu} = \frac{1}{\nu} - \frac{1}{\nu}$

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