

Searches with top quarks at D0

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We present two searches involving final states with top quarks or with topologies similar to those observed in top quark decays. The first is a search for the pair production of a fourth generation t' quark and its antiparticle, followed by their decay to a W boson and a jet, based on an integrated luminosity of 5.3 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$.

The second is a search for the production of a heavy gauge boson W' , that decays to third generation quarks. In both cases we set 95% C.L.~upper limits on the production cross sections and translate these into limits on the mass of the fourth generation quarks or of the W' boson in a variety of models.

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