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## Searches for New Physics in the Top Quark Samples at CDF

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Twelve years after the discovery of the Top Quark at Fermilab's Tevatron, we are now finally beginning to shed light on this peculiarly massive quark. With the large datasets from CDF, we are able to probe the Standard Model top quark, and to search for signals of physics beyond the Standard Model. We present results of measurements of top quark properties, such as the charge of the top quark, top production mechanisms, the V-A nature of the couplings. We also search for flavor changing neutral currents in top decays, top decaying to charged higgs, a massive resonant state decaying to top quark pairs, and a new heavy top-like quark decaying to  $Wq$ .

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