

Search for Maximal Flavor Violating Scalars in Same-Sign Leptons at CDF

In models of maximal flavor violation (MxFV) there is at least one new scalar Φ_{FV} which couples to the quarks via $\Phi_{FV} q_i q_j \propto \xi_{ij}$ where $\xi_{i3}, \xi_{3i} \sim V_{tb}$ for $i = 1, 2$ and $\xi_{33} \sim V_{td}$ and V is the CKM matrix. We study MxFV signals of same-sign leptons from same-sign top-quark pair production at CDF. We search for a pair of same-sign leptons, a tagged b -jet and missing transverse energy, and set limits on $m_{\Phi_{FV}}$ and the MxFV coupling ξ .

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