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Searches for Massive T'quark decaying to W + b at the Tevatron

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Fifteen years since the discovery of top at the Tevatron, with the large Run 2 dataset in hand and plenty of analysis experience, we have now reached the point where we can perform in-depth examinations of the top quark event sample for evidence of physics beyond the Standard Model. We present a search for a massive quark (t') decaying to Wq or Wb and thus mimicking the top quark decay signature. We set limits on a 4th generation t' quark using the latest Tevatron data.

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