

# Search for the production of an excited bottom quark decaying to $tW$ in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$

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We are trying to search  $b^*$  decaying to a top quark and a  $W$  boson in the lepton+neutrino, bjet and  $W$ jet final state, in proton-proton collisions at  $\sqrt{s} = 13\text{ TeV}$  recorded by the CMS experiment at the CERN LHC. Data corresponding to an integrated luminosity of  $35.6\text{ fb}^{-1}$  are used.

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