

36* fb⁻¹ (13 TeV)

CMS

Singlet ($T \rightarrow bW_{50\%}, tH_{25\%}, tZ_{25\%}$)

(tq) $T \rightarrow tZ + tH \rightarrow bqq, bb$ (merged-jet) ♣
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(tq) $T \rightarrow tZ \rightarrow bqq, ll$ ♣
PLB 781 (2018) 574

$\Gamma_T / m_T < 5\%$

— Observed

- - - Expected

■ $\Gamma_T / m_T = 5\%$

■ $\Gamma_T / m_T = 1\%$

95% CL upper limit on σ (pp \rightarrow qt T) [pb]

10⁻²

0.8

1

1.2

1.4

1.6

1.8

m_T [TeV]

