

	$R_{\text{t}\bar{\text{t}}\text{b}\bar{\text{b}}/\text{t}\bar{\text{t}}\text{j}}$	$\sigma_{\text{t}\bar{\text{t}}\text{j}}$ [pb]	$\sigma_{\text{t}\bar{\text{t}}\text{b}\bar{\text{b}}}$ [pb]
Dilepton channel (VPS)			
POWHEG + PYTHIA8	0.013 ± 0.002	2.41 ± 0.21	0.032 ± 0.004
Measurement	$0.017 \pm 0.001 \pm 0.001$	$2.36 \pm 0.02 \pm 0.20$	$0.040 \pm 0.002 \pm 0.005$
Dilepton channel (FPS)			
POWHEG + PYTHIA8	0.014 ± 0.003	163 ± 21	2.3 ± 0.4
MG_aMC@NLO + PYTHIA8 5FS [FxFx]	0.015 ± 0.003	159 ± 25	2.4 ± 0.4
POWHEG + HERWIG++	0.011 ± 0.002	170 ± 25	1.9 ± 0.3
Measurement	$0.018 \pm 0.001 \pm 0.002$	$159 \pm 1 \pm 15$	$2.9 \pm 0.1 \pm 0.5$
Lepton+jets channel (VPS)			
POWHEG + PYTHIA8	0.017 ± 0.002	30.5 ± 3.0	0.52 ± 0.06
Measurement	$0.020 \pm 0.001 \pm 0.001$	$31.0 \pm 0.2 \pm 2.9$	$0.62 \pm 0.03 \pm 0.07$
Lepton+jets channel (FPS)			
POWHEG + PYTHIA8	0.013 ± 0.002	290 ± 29	3.9 ± 0.4
MG_aMC@NLO + PYTHIA8 5FS [FxFx]	0.014 ± 0.003	280 ± 40	4.1 ± 0.4
POWHEG + HERWIG++	0.011 ± 0.002	321 ± 36	3.4 ± 0.5
Measurement	$0.016 \pm 0.001 \pm 0.001$	$292 \pm 1 \pm 29$	$4.7 \pm 0.2 \pm 0.6$