

Source	$\sigma_{\bar{t}t\bar{b}b}$ (%)	$\sigma_{\bar{t}tjj}$ (%)	$\sigma_{\bar{t}t\bar{b}b} / \sigma_{\bar{t}tjj}$ (%)
Pileup	0.4	< 0.1	0.4
JES & JER	7.8	7.4	2.6
b tag (b quark flavour)	19	4.7	19
b tag (c quark flavour)	14	1.3	14
b tag (light flavour)	14	9.8	9.7
Ratio of $\bar{t}t\bar{b}b$ and $\bar{t}tbj$	2.6	0.5	2.6
Background modelling	3.8	3.5	1.6
$\bar{t}t\bar{c}c$ fraction in the fit	5.2	1.9	4.8
Lepton identification	3.0	3.0	–
MC generator	9.4	6.2	3.0
$Q^2$ scale	2.0	2.0	1.0
scale in PS	13	9.9	10
PDF	0.5	0.5	< 0.1
Efficiency ( $\bar{t}t\bar{c}c$ fraction)	–	1.3	1.3
Top $p_T$ modeling	0.8	0.3	0.5
Luminosity	2.7	2.7	–
Total uncertainty	34	19	28