

Result

POWHEG

MADGRAPH5_aMC@NLO

Fiducial phase space

$\sigma_{\text{t}\bar{\text{t}}\text{c}\bar{\text{c}}}$ [pb]	$0.207 \pm 0.025 \pm 0.027$	0.187 ± 0.038	0.189 ± 0.032
$\sigma_{\text{t}\bar{\text{t}}\text{b}\bar{\text{b}}}$ [pb]	$0.132 \pm 0.010 \pm 0.015$	0.097 ± 0.021	0.101 ± 0.023
$\sigma_{\text{t}\bar{\text{t}}\text{LL}}$ [pb]	$5.15 \pm 0.12 \pm 0.41$	5.95 ± 1.02	6.32 ± 0.94
R_{c} [%]	$3.01 \pm 0.34 \pm 0.31$	2.53 ± 0.18	2.43 ± 0.17
R_{b} [%]	$1.93 \pm 0.15 \pm 0.18$	1.31 ± 0.12	1.30 ± 0.16

Full phase space

$\sigma_{\text{t}\bar{\text{t}}\text{c}\bar{\text{c}}}$ [pb]	$10.1 \pm 1.2 \pm 1.4$	9.1 ± 1.8	8.9 ± 1.5
$\sigma_{\text{t}\bar{\text{t}}\text{b}\bar{\text{b}}}$ [pb]	$4.54 \pm 0.35 \pm 0.56$	3.34 ± 0.72	3.39 ± 0.66
$\sigma_{\text{t}\bar{\text{t}}\text{LL}}$ [pb]	$220 \pm 5 \pm 19$	255 ± 43	261 ± 37
R_{c} [%]	$3.36 \pm 0.38 \pm 0.34$	2.81 ± 0.20	2.72 ± 0.19
R_{b} [%]	$1.51 \pm 0.11 \pm 0.16$	1.03 ± 0.08	1.03 ± 0.09