Source	Uncertainty	Samples	Impact (up/down)
$t\bar{t}$ cross section*	$\pm$ 20%	$t\bar{t}$	$+5.1$ / -5.0%
Single t cross section*	$\pm$ 30%	single t	-4.2 / $+4.8\%$
Luminosity*	$\pm$ 1.6%	$t\bar{t}$, single t, signal	-1.4 / $+1.5\%$
Top quark p_T reweighting*	Shape	$t\bar{t}$	-5.0 / $+5.1\%$
PDF*	Shape	$t\bar{t}$, single t, signal	-4.1 / $+4.6\%$
Background estimation (1b)	Shape	non-top (from data)	-5.3 / $+6.9\%$
Background estimation (2b)	Shape	non-top (from data)	-0.3 / -0.4%
Pileup*	Shape	$t\bar{t}$, single t, signal	-0.4 / $+0.5\%$
JES*	Shape	$t\bar{t}$, single t, signal	-1.3 / $+2.3\%$
JER*	Shape	$t\bar{t}$, single t, signal	$+0.0$ / $+0.4\%$
ECAL trigger timing*	Shape	$t\bar{t}$, single t, signal	$+0.1$ / -0.0%
Electron identification	Shape	$t\bar{t}$, single t, signal	$+0.4$ / -0.4%
Electron reconstruction	Shape	$t\bar{t}$, single t, signal	$+0.2$ / -0.0%
Electron trigger	Shape	$t\bar{t}$, single t, signal	$+0.3$ / -0.0%
Muon identification	Shape	$t\bar{t}$, single t, signal	$+0.4$ / -0.1%
Muon isolation	Shape	$t\bar{t}$, single t, signal	$+0.3$ / -0.1%
Muon trigger	Shape	$t\bar{t}$, single t, signal	-0.1 / $+0.4\%$
t tagging (fully merged)	Shape	$t\bar{t}$, single t, signal	-1.2 / $+1.5\%$
t tagging (partially merged)	Shape	$t\bar{t}$, single t, signal	-0.7 / $+0.8\%$
t tagging (nonmerged)	Shape	$t\bar{t}$, single t, signal	-0.0 / $+0.2\%$
b tagging (b, c)	Shape	$t\bar{t}$, single t, signal	-3.6 / $+4.0\%$
b tagging (u, d, s, g)	Shape	$t\bar{t}$, single t, signal	$+0.7$ / -0.6%