Source	Uncertainty	Samples	Impact (up/down)
$t\bar{t}$ cross section[*]	$\pm$ 20%	$t\bar{t}$	+5.1 / -5.0%
Single tcross section[*]	$\pm$ 30%	single t	-4.2 / +4.8%
Luminosity[*]	$\pm$ 1.8%	$t\bar{t}$, single t, signal	-1.9 / +1.8%
Top 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%
JEC[*]	Shape	$t\bar{t}$, single t, signal	-1.3 / +2.3%
JER[*]	Shape	$t\bar{t}$, single t, signal	+0.0 / +0.4%
Trigger prefiring	Shape	$t\bar{t}$, single t, signal	+0.1 / -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%
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%
ttagging (fully merged)	Shape	$t\bar{t}$, single t, signal	-1.2 / +1.5%
ttagging (partially merged)	Shape	$t\bar{t}$, single t, signal	-0.7 / +0.8%
ttagging (non-merged)	Shape	$t\bar{t}$, single t, signal	-0.0 / +0.2%
btagging (b,c)	Shape	$t\bar{t}$, single t, signal	-3.6 / +4.0%
btagging (u,d,s,g)	Shape	$t\bar{t}$, single t, signal	+0.7 / -0.6%