

Source	Variation	Samples
$t\bar{t}$ cross section	+4.8%,-5.5%	$t\bar{t}$
single top cross section (tW)	$\pm 5.4\%$	single top
Luminosity	$\pm 2.7\%$	$t\bar{t}$, single top, signal
t tagging	$\pm 23\%$	$t\bar{t}$, single top, signal
AK4 to AK8 b tagging	$\pm 3\%$	$t\bar{t}$, single top, signal
Pileup	$\pm 1\sigma (\sigma_{mb})$	$t\bar{t}$, signal
PDF	$\pm 1\sigma (x, Q^2)$	$t\bar{t}$, signal
Jet Energy Scale	$\pm 1\sigma (p_T)$	$t\bar{t}$, signal
Jet Energy Resolution	$\pm 1\sigma (p_T, \eta)$	$t\bar{t}$, signal
Q^2 Scale	$\pm 1\sigma (Q^2)$	$t\bar{t}$
b tagging	$\pm 1\sigma (p_T)$	$t\bar{t}$, signal
Trigger	$\pm 1\sigma (H_T)$	$t\bar{t}$, signal
Average b tagging rate fit	$\pm 1\sigma (p_T, \eta)$	QCD (from data)
QCD MC closure	$\pm 1\sigma (M_{tb})$	QCD (from data)
b candidate mass	$\pm 1\sigma (M_b)$	QCD (from data)
Alternate functional forms	$\pm 1\sigma (p_T, \eta)$	QCD (from data)