

Uncertainty source	$x = 0.5$ $\tilde{t}_1(300)$ $\tilde{\chi}_1^0(100)$	$x = 0.5$ $\tilde{t}_1(500)$ $\tilde{\chi}_1^0(350)$	$x = 0.5$ $\tilde{t}_1(800)$ $\tilde{\chi}_1^0(300)$	$x = 0.5$ $\tilde{t}_1(1000)$ $\tilde{\chi}_1^0(1)$	$\bar{t}\bar{t}$	Single top	DY + Other SM	Misid. $\tau_h$
Signal cross-section	$\pm 6.9\%$	$\pm 7.5\%$	$\pm 9.5\%$	$\pm 11\%$	—	—	—	—
FASTSIM $p_T^{\text{miss}}$ resolution	$\pm 1.6\%$	$\pm 1.6\%$	$\pm 0.3$	$\pm 0.1\%$	—	—	—	—
$\tau_h$ FASTSIM/GEANT4	$\pm 0.7\%$	$\pm 0.7\%$	$\pm 0.9\%$	$\pm 1.3\%$	—	—	—	—
$\mu$ FASTSIM/GEANT4	$\pm 1.7\%$	$\pm 1.4\%$	$\pm 2.9\%$	$3.1\%$	—	—	—	—
JER	+0.6%	+0.3%	$< 0.1\%$	+0.1%	—	+0.3%	+4.2%	+0.1%
	-0.1%	-0.5%	$< 0.1\%$	$< 0.1\%$	—	-0.1%	-1.5%	-0.4%
2018 $m_{T2}$ uncertainty	—	—	—	—	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$
JES	+0.1%	+0.2%	$< 0.1\%$	+0.1%	—	0.6%	+4.7%	+0.4%
	-0.3%	-0.5%	$< 0.1\%$	-0.1%	—	-0.7%	-3.0%	-0.4%
$\mu_R$ and $\mu_F$ scales	0.5%	+0.8%	+0.2%	+0.2%	—	4.2%	+4.0%	+4.9%
	-0.5%	-0.8%	-0.3%	-0.3%	—	-4.0%	-5.1%	-5.1%
$\tau_h$ Id-iso	+3.2%	+3.2%	+3.2%	+3.2%	+3.1%	+3.1%	3.1%	+1.6%
	-3.9%	-3.8%	-4.1%	-4.1%	-3.8%	-3.9%	-3.6%	-1.3%
Pileup	+0.6%	+0.1%	+0.3	+0.4%	—	+0.7%	+0.4%	+0.2%
	-0.6%	-0.1%	-0.3	-0.4%	—	-0.7%	-0.4%	-0.2%
$p_T^{\text{miss}}$ unclustered energy	$< 0.1\%$	$< 0.1\%$	+0.1%	$< 0.1\%$	—	0.7%	+5.0%	0.2%
	$< 0.1\%$	0.1%	$< 0.1\%$	-0.1%	—	-1.2%	-3.2%	-0.3%
b-tagging	$< 0.1\%$	$\pm 0.1$	$\pm 0.14$	$\pm 0.4\%$	—	$\pm 2.0\%$	$\pm 5.3\%$	$\pm 0.7\%$
2017 $p_T^{\text{miss}}$ uncertainty	—	—	—	—	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$
$\tau_h$ energy scale	-0.6%	-0.05%	-0.3%	$< 0.1\%$	+0.1%	+0.1%	+2.5%	+0.1%
	-0.1%	-0.6%	-0.1%	$< 0.1\%$	-0.1%	-0.1%	-3.8%	-0.1%
Trigger	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$	$< 0.1\%$
$\bar{t}\bar{t}$ + single top SF	—	—	—	—	$\pm 3.8\%$	$\pm 3.9\%$	—	—
$\tau_h$ fake rate (parton flavour)	—	—	—	—	—	—	—	$\pm 15\%$
Non W+jets background modeling in $R$	—	—	—	—	—	—	—	$\pm 10\%$