

Uncertainty source	$x = 0.5$ $\tilde{\tau}_1(300)$ $\tilde{\chi}_1^0(100)$	$x = 0.5$ $\tilde{\tau}_1(500)$ $\tilde{\chi}_1^0(350)$	$x = 0.5$ $\tilde{\tau}_1(800)$ $\tilde{\chi}_1^0(300)$	$x = 0.5$ $\tilde{\tau}_1(1000)$ $\tilde{\chi}_1^0(1)$	$t\bar{t}$ + single t	DY+jets	Other SM	Misid. τ_h
Signal cross section	$\pm 6.7\%$	$\pm 7.5\%$	$\pm 9.5\%$	$\pm 11\%$	—	—	—	—
FASTSIM p_T^{miss} resolution	$\pm 7.8\%$	$\pm 6\%$	$\pm 4.5\%$	$\pm 2.3\%$	—	—	—	—
τ_h FASTSIM/GEANT4	+4.0% -3.9%	+3.1% -3.0%	+6.3% -6.1%	+15.9% -14.5%	—	—	—	—
JER	<0.1% <0.1%	-1.1% +0.8%	<0.1% +0.11%	+0.23% <0.1%	+1.3% -1.3%	+8.4% -3.6%	+1.7% -3.0%	—
2018 m_{T2} uncertainty	—	—	—	—	<0.1% <0.1%	+0.29% -0.29%	+0.38% -0.38%	—
Pileup	-0.3% +0.3%	+0.57% -0.62%	+0.2% -0.2%	<0.1% <0.1%	—	+1.7% -1.8%	-1.8% +1.9%	—
JES	+1.4% -0.5%	+0.54% -0.12%	<0.1% <0.1%	<0.1% <0.1%	+2.6% -2.6%	+8.5% -6.0%	+2.4% -1.9%	—
τ_h ID-iso	+6.5% -8.1%	+6.4% -8.1%	+6.6% -8.1%	+6.6% -8.2%	+6.6% -8.1%	+6.5% -8.1%	+6.8% -8.1%	—
p_T^{miss} unclustered energy	+0.47% +0.33%	-0.46% -0.26%	+0.13% <0.1%	<0.1% <0.1%	+1.2% -1.2%	+4.9% -4.6%	+1.7% -0.2%	—
Background normalization	—	—	—	—	—	$\pm 15\%$	$\pm 15\%$	—
τ_h energy scale	+2.5% -2.7%	+2.4% -3.5%	+1.1% -1.3%	+1.1% -1.1%	+1.7% -1.8%	+3.6% -3.4%	+1.7% -4.6%	—
μ_R and μ_F scales	+0.8% -0.8%	+1.7% -1.8%	+0.57% -0.64%	+0.41% -0.46%	—	+2.1% -2.9%	+4.1% -3.4%	—
Luminosity	$\pm 2.1\%$	$\pm 2.1\%$	$\pm 2.1\%$	$\pm 2.1\%$	—	$\pm 2.1\%$	$\pm 2.1\%$	—
b tagging	<0.1% <0.1%	<0.1% <0.1%	<0.1% <0.1%	+0.14% -0.15%	—	+7.7% -7.8%	+7.9% -8.0%	—
2017 p_T^{miss} uncertainty	—	—	—	—	<0.1% <0.1%	<0.1% <0.1%	+1.2% -1.2%	—
Trigger	+7.9% -7.5%	+7.8% -7.5%	+8.0% -7.7%	+8.1% -7.8%	+11.8% -11.2%	+11.6% -10.9%	+11.6% -10.9%	—
$t\bar{t}$ + single t SF	—	—	—	—	$\pm 3.4\%$	—	—	—
Z p_T reweighting	—	—	—	—	—	+2.0% -2.0%	—	—
τ_h misid. rate (parton flavor)	—	—	—	—	—	—	—	+36.5% -31.8%
τ_h misid. rate (correlations)	—	—	—	—	—	—	—	+3.7% -3.8%