

Uncertainty Source	$\sigma_{\sigma_{\text{tt+jet}}^1}$ [%]	$\sigma_{\sigma_{\text{tt+jet}}^2}$ [%]	$\sigma_{\sigma_{\text{tt+jet}}^3}$ [%]	$\sigma_{\sigma_{\text{tt+jet}}^4}$ [%]
Total experimental	2.1	1.6	1.7	2.9
Total muons	0.3	0.3	0.2	0.6
Muon identification	0.3	0.2	0.2	0.5
Muon energy scale	0.2	0.0	0.0	0.2
Total electrons	0.3	0.2	0.2	0.6
Electron identification	0.3	0.2	0.2	0.5
Electron energy scale	0.1	0.0	0.1	0.3
Total jets	1.0	0.6	0.7	1.6
Jet energy scale	1.0	0.5	0.5	1.3
Jet energy resolution	0.3	0.3	0.5	0.2
Jet identification	0.2	0.4	0.4	1.1
$p_{\text{T}}^{\text{miss}}$	≤ 0.1	0.0	0.0	≤ 0.1
b jet identification	0.3	0.1	0.1	0.2
Trigger efficiency	0.3	0.3	0.3	0.6
Total background normalization	0.8	0.4	0.3	0.7
tt+0 jet	≤ 0.1	0.1	0.1	0.4
Z+jets	0.4	0.2	0.2	0.6
single top	0.2	0.1	0.1	0.2
Total modeling	1.8	0.8	0.5	1.2
Z+jets ME scale	0.2	0.1	0.1	0.3
single top ME/FSR/ISR scales	1.0	0.2	0.1	0.2
tt PDF	0.1	0.0	≤ 0.1	0.1
tt ME scale	0.7	0.1	0.2	0.6
tt ISR scale	0.1	0.1	0.1	0.1
tt FSR scale	0.2	0.2	0.3	0.4
tt top p_{T}	0.7	0.5	0.2	0.6
b fragmentation	0.2	0.1	0.2	0.2
Color reconnection	0.2	0.0	0.2	≤ 0.1
tt matching scale	0.1	0.2	≤ 0.1	0.1
UE tune	0.1	0.0	0.1	≤ 0.1
Luminosity	0.3	0.3	0.3	0.6
m_{t}^{MC}	0.1	0.0	0.3	0.1
Limited size of simulated samples	1.1	0.5	0.4	1.5
Total systematic	6.0	4.3	4.0	5.7
Statistical	1.6	1.0	0.8	2.4
Total	6.2	4.4	4.0	6.2