

Source	Estimated uncertainty (%)	Treatment
e/ $\mu$ selection	3	normalization
$\tau_h$ selection	5	normalization
Trigger efficiency	3	normalization
Jet energy scale	2–10	shape
b tag veto	1–2	shape
Pileup	1–5	shape
Integrated luminosity	2.5	normalization
Scale variations and PDF (ttZ and ttW)	15	normalization
Theoretical (ZZ)	25	normalization
Conversions	15	normalization
Other backgrounds	50	normalization
Monte Carlo statistical precision	1–30	normalization
Nonprompt leptons (closure)	30	normalization
Nonprompt leptons (W/Z bkg. subtraction)	5–20	shape
Charge misidentification	20	normalization
WZ normalization	10	normalization
WZ shape	5–50	shape
ISR uncertainty	1–5	shape
Scale variations for signal processes	1–2	shape
Lepton efficiencies	2	normalization
Signal acceptance ( $p_T^{\text{miss}}$ modelling)	1–5	shape