

Uncertainty source	Shape	Category				Correlated across	
		$e\tau_h$	$\mu\tau_h$	$e\tau_h\tau_h$	$\mu\tau_h\tau_h$	Years	Categories
Integrated luminosity	—	1.2–2.5				✓	✓
Trigger efficiency	✓	0.9–4.2	0.5–2.9	1.2–3.0	0.1–0.3	—	✓
Trigger timing inefficiency	✓	—	—	0.1–0.3	0.1–0.3	—	✓
Pileup	✓	0.2–2.9	0.1–1.6	0.1–5.5	0.1–2.3	✓	✓
Electron identification	✓	0.1–2.4	—	0.1–1.9	—	✓	✓
Muon identification	✓	—	0.4–1.6	—	0.1–1.1	✓	✓
Lepton veto	—	0.1–2.0	0.1–2.0	0.1–2.0	0.1–2.0	—	✓
τ_h identification	✓	0.1–3.6	0.1–3.2	4.2–5.2	4.3–5.3	—	✓
τ_h energy scale	✓	0.2–1.8	0.2–0.4	0.8–1.5	0.8–1.2	—	✓
$e \rightarrow \tau_h$ misidentification	✓	0.2–1.5	0.1–0.4	0.3–0.6	0.2–0.6	—	✓
$\mu \rightarrow \tau_h$ misidentification	✓	0.1–1.6	0.1–0.3	0.1–0.3	0.1–0.3	—	✓
jet energy scale	✓	1.1–4.9	1.2–4.2	1.6–3.6	1.6–2.4	✓	✓
jet energy resolution	✓	0.3–3.1	0.3–3.1	1.1–4.6	1.2–3.1	—	✓
b jet identification	✓	2.5–5.4	2.5–5.1	2.4–4.2	3.2–4.2	—	✓
b jet misidentification	✓	2.4–4.1	2.2–4.5	1.0–2.6	1.7–2.5	—	✓
unclustered energy scale	✓	0.1–1.9	0.2–1.5	0.5–1.7	0.3–2.4	—	✓
t^{res} tagging	✓	1.5–7.6	1.3–7.5	—	—	—	✓
t^{res} mistagging	✓	1.7–4.9	1.7–5.4	—	—	—	✓
$j \rightarrow \tau_h$ misidentification	✓	17.8–21.1	18.2–22.4	14.8	10.5	—	—
Theoretical							
Top quark mass ($t\bar{t}$)	—	2.2				✓	✓
Top quark mass (single t)	—	2.8				✓	✓
QCD scales ($t\bar{t}$)	—	-2.4 to +3.5				✓	✓
QCD scales (single t)	—	2.5				✓	✓
QCD scales (EW)	—	3.2				✓	✓
QCD acceptance (tX)	—	2.0				✓	✓
QCD acceptance (H^\pm)	—	5.0				✓	✓
PDF + α_S ($t\bar{t}$)	—	4.2				✓	✓
PDF + α_S (single t)	—	4.7				✓	✓
PDF + α_S (EW)	—	4.4				✓	✓
PDF + α_S acceptance (top)	—	-2.0 to +0.3				✓	✓
PDF + α_S acceptance (H^\pm)	—	-0.4 to +1.7				✓	✓
Theoretical α_S (ttH)	—	1.0				✓	✓