

Source of uncertainty	Prefit	Postfit (%)
τ_h energy scale	1.2% in energy scale	0.2–0.3
e energy scale	1–2.5% in energy scale	0.2–0.5
e misidentified as τ_h energy scale	3% in energy scale	0.6–0.8
μ misidentified as τ_h energy scale	1.5% in energy scale	0.3–1.0
Jet energy scale	Dependent upon p_T and η	—
\vec{p}_T^{miss} energy scale	Dependent upon p_T and η	—
τ_h ID & isolation	5% per τ_h	3.5
τ_h trigger	5% per τ_h	3
τ_h reconstruction per decay mode	3% migration between decay modes	2
e ID & isolation & trigger	2%	—
μ ID & isolation & trigger	2%	—
e misidentified as τ_h rate	12%	5
μ misidentified as τ_h rate	25%	3–8
Jet misidentified as τ_h rate	20% per 100 GeV τ_h p_T	15
$Z \rightarrow \tau\tau/\ell\ell$ estimation	Normalization: 7–15% Uncertainty in $m_{\ell\ell/\tau\tau}$, $p_T(\ell\ell/\tau\tau)$, and m_{jj} corrections	3–15 —
W + jets estimation	Normalization ($e\mu$, $\tau_h\tau_h$): 4–20% Unc. from CR ($e\tau_h$, $\mu\tau_h$): \simeq 5–15 Extrap. from high- m_T CR ($e\tau_h$, $\mu\tau_h$): 5–10%	— — —
QCD multijet estimation	Normalization ($e\mu$): 10–20% Unc. from CR ($e\tau_h$, $\tau_h\tau_h$, $\mu\tau_h$): \simeq 5–15% Extrap. from anti-iso. CR ($e\tau_h$, $\mu\tau_h$): 20% Extrap. from anti-iso. CR ($\tau_h\tau_h$): 3–15%	5–20% — 7–10 3–10
Diboson normalization	5%	—
Single top quark normalization	5%	—
$t\bar{t}$ estimation	Normalization from CR: \simeq 5% Uncertainty on top quark p_T reweighting	— —
Integrated luminosity	2.5%	—
b-tagged jet rejection ($e\mu$)	3.5–5.0%	—
Limited number of events	Statistical uncertainty in individual bins	—
Signal theoretical uncertainty	Up to 20%	—