

uncertainty	$e\mu$	$e\tau_h$	$\mu\tau_h$	$\tau_h\tau_h$	process	shape	variation
luminosity	✓	✓	✓	✓	sim.	—	2.5%
e/μ -trigger, ID, isolation	✓	✓	—	—	sim.	—	2%
jet \rightarrow e mis-ID	✓	—	—	—	sim.	✓	13%
jet \rightarrow μ mis-ID	✓	—	—	—	sim.	✓	10%
$e \rightarrow \tau_h$ mis-ID	—	✓	—	—	$Z \rightarrow ee$	—	11%
	—	—	—	✓			3%
$\mu \rightarrow \tau_h$ mis-ID	—	—	✓	—	$Z \rightarrow \mu\mu$	—	12%
	—	—	—	✓			5%
τ_h -trigger	—	—	—	✓	sim.	—	7%
τ_h -ID	—	✓	✓	—	sim.	—	3%(4%)
	—	—	—	✓			6%(8%)
τ_h -ID (high p_T)	—	✓	✓	✓	sim.	✓	p_T dep.
τ_h energy scale	—	✓	✓	✓	sim.	✓	1.2%
$e \rightarrow \tau_h$ energy scale	—	✓	—	—	$Z \rightarrow ee$	✓	0.5–1%
e energy scale	✓	—	—	—	sim.	✓	1–2.5%
jet energy scale	✓	✓	✓	✓	sim.	—	1–6%
b-tagging	✓	✓	✓	✓	sim.	—	1–5%
E_T^{miss} resp./res.	✓	✓	✓	✓	sim.	—	1–5%
	✓	✓	✓	✓	$Z \rightarrow \tau\tau$		1–7%
	✓	✓	✓	✓	$Z \rightarrow ll$		4%
sideband extrap.	✓	✓	✓	✓	$t\bar{t}$	—	1%
	✓	—	—	—	QCD		4–29% (30%)
		✓	✓	✓	diboson		5%
bkgr. in signal categories	✓	✓	✓	✓	single top	—	5%
		—	—	—	W+jets		4%
bkgr. in $DR_{\text{QCD}/W+\text{jets}}$	—	✓	✓	—	sim.	—	3%
		—	—	✓			4%
		✓	—	—			4–7%
FF _{<i>i</i>} stat. uncert.	—	—	✓	—	FF	✓	4%
		—	—	✓			2–3%
		✓	—	—			7–10%
FF _{<i>i</i>} corrections	—	—	✓	—	FF	✓	5–7%
		—	—	✓			10%
top quark p_T reweighting	✓	✓	✓	✓	$t\bar{t}$	✓	100%
Z reweighting of LO sim.	✓	✓	✓	✓	$Z \rightarrow \tau\tau, ll$	✓	see text
b-associated signal acc.	✓	✓	✓	✓	signal	—	3.2–16.5%
signal pdf/scale	✓	✓	✓	✓	signal	—	15–20%
					SM Higgs		0.5–3.2%