Source of uncertainty	Magnitude	Process
	Experimental uncertainties	
τ_h id.	2–4%	All simulations
τ_h energy scale†	0.5–1.5%	All simulations
electron energy scale†	1–2%	All simulations
e id. & isolation	1.5–4.5%	All simulations
e trigger	2%	All simulations
μ id. & isolation	1.5–4.5%	All simulations
μ trigger	2%	All simulations
b-tag uncertainties	1–4% (heavy flavor) 5–10% (light flavour)	All simulations
$\vec{p}_T^{\,miss}$ unclustered energy scale†	2–4%	All simulations
Jet energy scale†	1–3%	All simulations
Jet energy resolution†	$< 1\%$	All simulations
Limited statistics of MC events	bin-by-bin unc.	All simulations
Integrated luminosity	$< 2\%$	All simulations
	Uncertainties in reducible background estimate	
		misidentified τ leptons (data-driven estimate)
statisicts in AR	20−40%	(*b-tag* category)
	10−20%	(*no b-tag* category)
nonclosure of method	30%	$e\tau_h$ channel
	20%	$\mu\tau_h$ channel
	20%	$\tau_h\tau_h$ channel
	Theoretical uncertainties in background estimate	
$qq \to ZZ$ cross section	5%	$qq \to ZZ$
$gg \to ZZ$ cross section	10%	$gg \to ZZ$
$gg \to ZZ$ NNLO K factor estimate	10%	$gg \to ZZ$
$t\bar{t}Z$ cross section	25%	$t\bar{t}Z$
triboson cross section	25%	triboson
Theoretical uncertainty in $\mathcal{B}(h \to \tau\tau)$	<2%	$gg \to A$, $b\bar{b}A$, Higgs bkg.
PDFs	1.3−3.6%	Higgs bkg.
μ_F and μ_R scales	1−8%	Higgs bkg.
	Theoretical uncertainties in signal estimate (applied in MSSM interpretation)	
signal cross section (μ_F, μ_R scale, PDFs, α_S)	5−20% (10−25%)	$gg \to A$ ($b\bar{b}A$)