Source of uncertainty	Magnitude	Process
Experimental uncertainties		
$\tau_{\rm h}$ id. ⁺	2–10%	all simulations
μ trigger	2%	all simulations
μ id. & isolation	1.5-4.5%	all simulations
e trigger	2%	all simulations
e id. & isolation	1.5-4.5%	all simulations
limited MC event count	bin-by-bin uncertainties	all simulations
$\tau_{\rm h}$ energy scale [†]	0.5–1.5%	all simulations
integrated luminosity	<2%	all simulations
e energy scale [†]	1–2%	all simulations
b jet identification efficiency	1–4%	all simulations
b jet misidentification rate	5–10%	all simulations
jet energy scale [†]	1–3%	all simulations
$\vec{p}_{\rm T}^{\rm miss}$ unclustered energy scale [†]	1–3%	all simulations
jet energy resolution [†]	<1%	all simulations
Uncertainties in reducible background estimate		
	0	misidentified $ au$ leptons
normalization uncertainty	30%	$e\tau_{\rm h}$ channel
2	20%	$\mu \tau_{\rm h}$ channel
	20%	$\tau_{\rm h} \tau_{\rm h}$ channel
event count in AR	20–40%	(<i>b-tag</i> category)
	10–20%	(no b-tag category)
Theoretical uncertainties in background estimate		
$q\overline{q} \rightarrow ZZ$ normalization	5%	$q\overline{q} \rightarrow ZZ$
$gg \rightarrow ZZ$ normalization	15%	$gg \rightarrow ZZ$
ttZ normalization	25%	tīZ
triboson normalization	25%	triboson
$\mu_{\rm F}$ and $\mu_{\rm R}$ scales	1-8%	Higgs bkg.
theoretical uncertainty in $\mathcal{B}(h \rightarrow \tau \tau)$	<2%	$gg \rightarrow A, b\overline{b}A, Higgs bkg.$
PDFs	1.3–3.6%	Higgs bkg.
Theoretical uncertainties in the signal estimate (applied in the MCCM interpretation)		

Theoretical uncertainties in the signal estimate (applied in the MSSM interpretation) signal cross section

 $(\mu_{\rm F}, \mu_{\rm R} \text{ scale}, \text{PDFs}, \alpha_{\rm S})$ 5–20% (10–25%) gg \rightarrow A (bbA)