Systematic source	Involved processes	Change in acceptance or shape		
		$\mathrm{e} au_{\mathrm{h}}$		$\mu au_{ m h}$
Integrated luminosity	Simulated processes		2.5%	
Electron ident. & trigger	Simulated processes	2%		-
Muon ident. & trigger	Simulated processes	-		2%
$ au_{ m h}$ ident. & trigger	Simulated processes		10%	
e misidentified as $ au_{ m h}$	$Z \rightarrow ee$	12%		-
μ misidentified as $ au_{ m h}$	$Z o \mu \mu$	-		25%
b tagging efficiency, mistag rate	Simulated processes		3–5%	
$ ec{p}_{ extsf{T}}^{ ext{miss}} $ scale	Simulated processes		Up to 4%	
W + jets normalization	W + jets		5%	
QCD multijet normalization	QCD multijet		20%	
Z + jets normalization	$Z ightarrow au_h au_h$		20%	
t t normalization	tī (1b1f, 1b1c only)		6%	
tt cross section	$t\bar{t}$ ($b\bar{b}A$ only)		6%	
Diboson cross section	Diboson		6%	
Single top quark cross section	Single top quark		5.5%	
bbA cross section	Signal (bbA only)		50%	
$ au_{ m h}$ energy scale	Simulated processes		Shape	
$e/\mu \rightarrow \tau_h$ energy scale	Simulated processes		Shape	
Jet energy scale	Simulated processes		4%	
Jet misidentified as $ au_{ m h}$	Z + jets		Shape	
Limited event count	All processes		Shape	