

Source	Affected processes	Change in acceptance or shape		
		$e\tau_h$	$\mu\tau_h$	$\tau_h\tau_h$
$\tau_h$ ID correlated	Simulated processes	4.5%	4.5%	-
$\tau_h$ ID uncorrelated	Simulated processes	2%	2%	9%
e ID & trigger	Simulated processes	2%	-	-
$\mu$ ID & trigger	Simulated processes	-	2%	-
e misidentified as $\tau_h$	$Z \rightarrow ee$	12%	-	-
$\mu$ misidentified as $\tau_h$	$Z \rightarrow \mu\mu$	-	25%	-
Jet misidentified as $\tau_h$	$Z + \text{jets}$		Shape only	
$\tau_h$ energy scale (per decay mode)	Simulated processes	1.2% on energy scale		
Jet energy scale on $p_T^{\text{miss}}$	Simulated processes	Shape, up to 10%		
$p_T^{\text{miss}}$ energy scale	Simulated processes	Shape, up to 11%		
Luminosity	Simulated processes	2.5%		
Norm. W + jets/QCD multijet	W + jets/QCD multijet	up to 20%		
Norm. $t\bar{t}$	$t\bar{t}$	6%		
Norm. diboson	Diboson	5%		
Norm. single top	Single top	5%		
Norm. SM Higgs boson	SM Higgs boson	up to 5%		
$\tau_h$ trigger	Simulated processes	-	-	Shape only
Z+jets LO-NLO reweighting	Z+jets	Shape, up to 26%		
W+jets NLO EWK correction	W+jets	Shape, up to 6%		
WW NLO EWK correction	WW	Shape, up to 12%		
ZZ NLO EWK correction	ZZ	Shape, up to 2%		
Top $p_T$ reweighting	$t\bar{t}$	Shape, up to 5%		
Theory: Higgs boson branching fraction	Signal + SM Higgs boson	1.7%		
Theory: Renormalization scale	Signal	4%		
Theory: PDF	Signal	2%		
Limited number of events (bin-by-bin)	All processes	Shape only		