Uncertainty	Process	Magnitude
Luminosity	All simulations	1.6%
DY cross section	DY	2%
Inclusive diboson cross section	WW, WZ, ZZ	5%
e ID, iso, trigger	All simulations	up to 2%
e ID low-N_{tracks} correction	All simulations	1%
μ ID, iso, trigger	All simulations	$<2\%$
τ_{h} ID	All simulations	1–5%
τ_{h} trigger	All simulations	up to 5%
e $\to \tau_{\text{h}}$ mis-ID	$Z/\gamma* \to$ ee and $\gamma\gamma \to$ ee	$<10\%$
$\mu \to \tau_{\text{h}}$ ID	$Z/\gamma* \to \mu\mu$ and $\gamma\gamma \to \mu\mu$	$<10\%$
τ_{h} energy scale	All simulations	$<1.2\%$
e $\to \tau_{\text{h}}$ energy scale	$Z/\gamma* \to$ ee and $\gamma\gamma \to$ ee	$<5\%$
$\mu \to \tau_{\text{h}}$ energy scale	$Z/\gamma* \to \mu\mu$ and $\gamma\gamma \to \mu\mu$	$<1\%$
τ_{h} ID low-N_{tracks} correction	All simulations	2.1%
e ID low-N_{tracks} correction	All simulations	2.0%
e $\to \tau_{\text{h}}$ ID low-N_{tracks} correction	$Z/\gamma* \to$ ee and $\gamma\gamma \to$ ee	22%
$\mu \to \tau_{\text{h}}$ ID low-N_{tracks} correction	$Z/\gamma* \to \mu\mu$ and $\gamma\gamma \to \mu\mu$	15%
$N_{\text{tracks}}^{\text{PU}}$ reweighting	All simulations	2%
$N_{\text{tracks}}^{\text{HS}}$ reweighting	DY and inclusive VV	1.5–6.5%
Acoplanarity correction	DY	5%
DY extrapolation from $N_{\text{tracks}} < 10$	DY simulation	1.4–2.0%
μ_R, μ_f	DY simulation	Shape
PDF	DY simulation	Shape
jet$\to \tau_{\text{h}}$ MF, extrapolation with $p_{\text{T}}^{\tau_{\text{h}}}$	jet$\to \tau_{\text{h}}$ mis-ID bkg.	$<50\%$
jet$\to \tau_{\text{h}}$ MF, N_{tracks} extrapolation (stat.)	jet$\to \tau_{\text{h}}$ mis-ID bkg.	6–18%
jet$\to \tau_{\text{h}}$ MF, inversion of CR selection	jet$\to \tau_{\text{h}}$ mis-ID bkg.	$<10\%$
jet$\to \tau_{\text{h}}$ MF, x^{QCD} fraction	jet$\to \tau_{\text{h}}$ mis-ID bkg.	9%
jet$\to \tau_{\text{h}}$ MF, N_{tracks} extrapolation (syst.)	jet$\to \tau_{\text{h}}$ mis-ID bkg.	$<10\%$
jet$\to$ e$/\mu$ OS-to-SS (stat.)	jet$\to$ e$/\mu$ mis-ID bkg.	$<20\%$
jet$\to$ e$/\mu$ OS-to-SS (syst.)	jet$\to$ e$/\mu$ mis-ID bkg.	10%
jet$\to$ e$/\mu$ OS-to-SS N_{tracks} extrapolation	jet$\to$ e$/\mu$ mis-ID bkg.	8%
Elastic rescaling (stat.)	$\gamma\gamma \to \tau\tau/\mu\mu/$ee, WW	1.3–3.7%
Elastic rescaling (syst., shape)	$\gamma\gamma \to \tau\tau/\mu\mu/$ee, WW	Mass-dependent
Limited statistics	All processes	Bin-dependent
Pileup reweighting	All simulations	Event-dependent