

Uncertainty source	$\mathcal{B}(Z \rightarrow \ell\ell')$			$\sigma(\text{pp} \rightarrow Z' + X) \times$
	$e\mu$ [10^{-8}]	$e\tau$ [10^{-6}]	$\mu\tau$ [10^{-6}]	$\mathcal{B}(Z' \rightarrow e\mu)$ [fb]
Electron & muon ID & trigger	0.1	0.3	0.1	0.1–0.01
Electron energy scale	0.2	3.5	0.2	0.6–0.01
Muon energy scale	0.1	0.1	0.9	0.3–0.01
Tau ID	—	0.3	0.2	—
Tau energy scale	—	0.4	0.4	—
$(e, \mu) \rightarrow \tau_{\text{h}}$	—	0.4	0.1	—
Jet energy, $p_{\text{T}}^{\text{miss}}$	0.3	0.8	0.2	0.1–0.01
b tagging	<0.1	0.2	0.2	<(0.1–0.01)
Pileup	0.1	0.2	0.1	<(0.1–0.01)
Integrated luminosity	0.3	0.1	0.1	0.1–0.01
Theory	0.1	0.5	0.2	0.1–(<0.01)
Parametric background	7.9	—	—	0.3–0.06
Envelope	2.5	—	—	0.1–0.04
$Z \rightarrow \mu\mu$ yield	0.5	—	—	—
Embedding energy resolution	—	1.1	0.2	—
Embedding normalization	—	1.5	0.2	—
$j \rightarrow \tau_{\text{h}}$	—	2.8	0.9	—
Nonprompt $e\mu$	—	2.7	0.4	—
Template event counts	<0.1	3.1	1.5	0.1–(<0.01)
Total systematic	8.3	5.7	2.2	0.8–0.08
Statistical	5.6	1.9	1.6	1.9–0.18