

Source	Bkgd./Signal process	Year-to-year treatment	ee bkgd. (%)	ee signal (%)	$\mu\mu$ bkgd. (%)	$\mu\mu$ signal (%)
Integrated luminosity	All bkgd./Signal	Correlated	1.6	1.6	1.6	1.6
Electron momentum scale	All bkgd./Signal	Correlated	0.1–0.9	0.0–0.5	<0.1	<0.1
Electron momentum smear	All bkgd./Signal	Correlated	<0.1	0.0–0.1	<0.1	<0.1
Muon momentum scale	All bkgd./Signal	Correlated	<0.1	0.0–0.1	0.0–5.0	0.0–1.1
Jet energy resolution	All bkgd./Signal	Uncorrelated	1.4–14.4	0.0–10.8	0.5–14.8	0.0–9.5
Jet energy scale	All bkgd./Signal	Correlated	5.4–15.3	0.0–11.4	3.6–16.7	0.0–9.2
Soft-drop mass scale	All bkgd./Signal	Correlated	0.0–0.5	0.0–1.3	0.0–0.5	0.0–1.2
Pileup weight	All bkgd./Signal	Correlated	0.0–2.0	0.0–2.9	0.0–1.7	0.0–1.9
L1 trigger inefficiency	All bkgd./Signal	Uncorrelated	0.0–1.8	0.0–2.3	0.0–1.1	0.0–1.0
Electron reconstruction SF	All bkgd./Signal	Correlated	1.3–2.2	1.1–2.3	<0.1	<0.1
Electron ident. SF	All bkgd./Signal	Correlated	1.9–4.0	0.3–5.3	<0.1	<0.1
Electron trigger SF	All bkgd./Signal	Uncorrelated	0.4–2.8	0.1–15.1	<0.1	<0.1
Muon reconstruction SF	All bkgd./Signal	Correlated	<0.1	<0.1	0.3–1.0	0.3–10.4
Muon ident. SF	All bkgd./Signal	Correlated	<0.1	<0.1	0.2–1.6	0.2–1.6
Muon isolation SF	All bkgd./Signal	Correlated	<0.1	<0.1	<0.1	<0.1
Muon trigger SF	All bkgd./Signal	Uncorrelated	<0.1	<0.1	0.1–0.2	0.1–1.3
Dilepton p_T shape correction	DY+jets	Correlated	0.0–19.2	—	0.0–18.8	—
PDF	Signal	Correlated	—	<0.1	—	<0.1
Scale (μ_R, μ_F)	Signal	Correlated	—	<0.1	—	<0.1
Nonprompt norm.	Nonprompt	Uncorrelated	100	—	100	—
Rare SM norm.	Others	Correlated	50	—	50	—