

Source	Bkgd./Signal process	Year-to-year treatment	ee bkgd. (%)	ee signal (%)	$\mu\mu$ bkgd. (%)	$\mu\mu$ signal (%)
Integrated luminosity	All bkgd./Signal	Correlated	1.8 (1.8)	1.8 (1.8)	1.8 (1.8)	1.8 (1.8)
Electron reconstruction	All bkgd./Signal	Correlated	1.0–1.6 (0.5–0.8)	0.8–1.4 (0.4–0.8)	—	—
Electron energy resolution	All bkgd./Signal	Correlated	< 0.1 (< 0.1)	< 0.1 (< 0.1)	—	—
Electron energy scale	All bkgd./Signal	Correlated	0.5–1.8 (0.5–2.3)	0–0.3 (0–0.5)	—	—
Electron identification	All bkgd./Signal	Correlated	3.1–3.3 (1.8–1.9)	4.1–4.4 (2.1–2.4)	—	—
Electron trigger	All bkgd./Signal	Uncorrelated	0–0.1 (0.2–0.4)	< 0.1 (0.1–0.2)	—	—
Muon reconstruction	All bkgd./Signal	Correlated	—	—	0.4–1.0 (0.3–0.7)	4.4–36.8 (5.6–30.7)
Muon momentum scale	All bkgd./Signal	Correlated	—	—	0.4–2.5 (0.5–3.7)	0.1–0.2 (0.1–0.3)
Muon identification	All bkgd./Signal	Correlated	—	—	0.2–1.2 (0.1–0.6)	0.2–1.1 (0.1–0.5)
Muon isolation	All bkgd./Signal	Correlated	—	—	0.1–0.2 (0–0.1)	0.1–0.2 (0–0.1)
Muon trigger	All bkgd./Signal	Uncorrelated	—	—	0.1–0.2 (0.1–0.2)	0.7–1.6 (0.5–1.3)
Jet energy scale	All bkgd./Signal	Correlated	1.9–4.4 (0.9–1.9)	0–0.2 (0–0.3)	2.1–3.5 (0.6–0.9)	0–0.2 (0–0.4)
Jet energy resolution	All bkgd./Signal	Uncorrelated	0.5–1.5 (0.7–2.0)	0–0.3 (0–0.4)	0.2–1.3 (0.2–1.1)	0–0.3 (0–0.3)
Jet mass scale	All bkgd./Signal	Correlated	< 0.1 (1.0–1.8)	< 0.1 (0.1–1.0)	< 0.1 (1.4–1.7)	< 0.1 (0.2–1.0)
LSF scale factor	All bkgd./Signal	Uncorrelated	— (6.7–8.7)	— (6.7–8.7)	— (5.8–7.1)	— (5.8–7.1)
Pileup modeling	All bkgd./Signal	Correlated	0.2–1.1 (0.5–1.1)	0.1–0.8 (0.2–0.9)	0.3–0.5 (0.2–1.1)	0.1–0.5 (0–0.6)
Z - p_T correction, MC stat.	DY+jets	Correlated	0.6–2.0 (0.6–2.0)	—	0.6–2.0 (0.6–2.0)	—
Z - p_T correction, QCD scale	DY+jets	Correlated	6.3–7.1 (6.7–7.3)	—	6.1–7.1 (6.8–7.4)	—
Z - p_T correction, QCD PDF error	DY+jets	Correlated	0.6–2.0 (0.6–2.0)	—	0.6–2.0 (0.6–2.0)	—
Z - p_T correction, QCD PDF α_S	DY+jets	Correlated	0.8–4.7 (0.8–5.2)	—	0.8–4.7 (0.8–5.3)	—
Z - p_T correction, EW1 [?]	DY+jets	Correlated	< 0.1 (< 0.1)	—	< 0.1 (< 0.1)	—
Z - p_T correction, EW2 [?]	DY+jets	Correlated	0.3 (0.3)	—	0.3 (0.3)	—
Z - p_T correction, EW3 [?]	DY+jets	Correlated	0.1 (0.1)	—	0.1 (0–0.1)	—
DY reshape	DY+jets	Correlated	8.5–9.1 (10.1–11.6)	—	8.5–9.2 (9.7–11.6)	—
Nonprompt background normalization	Nonprompt	Uncorrelated	100 (100)	—	100 (100)	—
Rare SM background normalization	Others	Correlated	50 (50)	—	50 (50)	—
PDF error	Signal	Correlated	—	5.9–11.1 (8.8–39.9)	—	2.8–6.8 (17.5–40.6)
α_S	Signal	Correlated	—	0–0.2 (0.2–1.3)	—	0–0.2 (0.2–1.2)
renormalization/factorization scales	Signal	Correlated	—	0–0.1 (0.3–2.3)	—	0–0.1 (2.1–2.9)