

Systematic Uncertainty	W/Z Ratio	W TF	Z TF	Other Background	Electron MisID	Jet MisID	Halo
NNLO QCD, EW, PDF	Shape (1–10%)	—	—	—	—	—	—
Photon ID SF	—	—	—	Shape (3–11%)	—	—	—
MisID rate	—	—	—	—	Shape (5–8%)	Shape (1–10%)	—
Halo	—	—	—	—	—	—	Shape (2–30%)
Jet energy scale	—	—	—	Shape (4–20%)	—	—	—
Photon energy scale	—	—	—	Shape (5.5–20%)	—	—	—
Integrated luminosity	—	Flat (1–2%)	Flat (1–2%)	Flat (1–2%)	—	—	—
Lepton identification	Flat	Flat	Flat	—	—	—	—
MC and CR statistical	—	—	—	Bin-by-bin	—	—	—