

Source	Shape	Signal (%)	V+jets (%)	SM EW (%)	QCD VV (%)	Top quark (%)
Renorm./fact. scales	✓	11–22	—	11–22	32–38	—
PDF	✓	7–17	—	4–17	5–9	—
Jet momentum scale	✓	2–13	—	1–17	1–20	5–20
V jet selection		8.0	—	8.0	8.0	—
GM model EW		7.0	—	—	—	—
Bkg. normalization		—	7 (16)	—	—	5.0
V+jets shape	✓	—	5–200	—	—	—
Integrated luminosity		2.5	—	2.5	2.5	—
Lepton efficiency		2.2 (2.8)	—	2.2 (2.8)	2.2 (2.8)	—
Lepton momentum scale	✓	0.5–3.5	—	0.5–3.5	1.5–7.5	1.0–5.0
b quark jet efficiency		2.0	—	2.0	2.0	3.0
Jet/ $p_T^{\text{miss}}$ resolution		4.0	—	3.0	2.0	—
Pileup modeling		4.0	—	4.0	4.0	—
Limited MC event count	✓	1–2	—	6–20 (12–39)	7–49 (17–57)	5–50 (3–70)