

Source	High-mass Merged		Low-mass Merged		Low-mass Resolved	
	Background	Signal	Background	Signal	Background	Signal
Electron trigger and ID	2.0–3.0		2.0		2.0	
Muon trigger and ID	1.5–3.0		1.5		1.5	
Electron energy scale	—	1.0	0.8	0.1–0.5	1.3	1.2–2.5
Muon momentum scale	—	0.5–2.0	0.6	0.1–0.4	1.4	0.2–2.0
Jet energy scale	0.1–0.5	0.1	1.0	0.3–0.6	1.3	0.6–1.8
Jet energy resolution	—	—	0.6	0.1	0.2	0.1–0.2
b tag SF untagged	—	—	0.2	0.3–0.4	0.1	0.6
b tag SF tagged	—	—	2.0	2.0–2.3	3.8	4.1–4.3
Mistag SF untagged	—	—	0.5	0.5–0.6	0.4	0.2–0.4
Mistag SF tagged	—	—	1.5	0.4–0.6	4.3	0.5–1.4
SM VZ production	12	—	12	—	12	—
SM t quark production	5	—	4 ($e\mu$)	—	4 ($e\mu$)	—
V identification (τ_{21})	—	11–23	6 (VZ)	6	—	—
V identification (extrapolation)	—	2.5–20	—	2.6–6.0	—	—
V mass scale	0.5–2.5	1.0–2.0	0.2 (VZ)	0.5–1.1	—	—
V mass resolution	5.5	5–6	5.6 (VZ)	5.7–6.0	—	—
Z + jets normalization	9–15	—	—	—	—	—
Pileup	0.5–4.0	0.4	0.5	0.1–0.3	0.1	0.3–0.5
PDFs	0.3–1.5	0.5	—	1.5–1.6	—	0.3–1.1
Renorm./fact. scales	2 (VZ), 15 (Top)	1.0–3.0	—	0.1–0.3	—	0.2–0.3
Integrated luminosity	2.5		2.5		2.5	