

	V+jets	$t\bar{t}$ , single top quark	VV, VH	Signal
Bkg. normalization	6–40%	—	—	—
Top quark background SFs	—	0.4–9.5%	—	—
Electron id., isolation	—	—	—	3.6%
Muon id., isolation	—	—	—	4.9%
Electron trigger	—	—	—	0.9%
Muon trigger	—	—	—	7%
Lepton scale and resolution †	—	—	—	1–3%
$p_T^{\text{miss}}$ scale and resolution	—	—	—	1%
Jet energy scale †	—	—	1.0%	1.0%
Jet energy resolution †	—	—	0.1%	0.1%
Jet mass scale	—	—	0.6%	0.6%
Jet mass resolution	—	—	9.0%	9.0%
Higgs boson tagging	—	—	—	6%
b tagging	—	1.4% ( $0\ell$ )	0.6% ( $\leq 1b$ ), 6.5% (2b)	1–6% ( $\leq 1b$ ), 4–15% (2b)
PDF, normalization	—	0.1%	4.7%	8–30% ‡
PDF, acceptance	—	0.1%	0.2%	0.5%
QCD renormalization and factorization scales	—	—	18.9%	3–15% ‡
Factorization and renorm. scales extrapolation	—	1%	—	—
Level 1 trigger	—	—	—	1%
Pileup	—	—	0.1%	0.1%
Integrated luminosity	—	—	1.8%	1.8%