

	shape	V+jets	$t\bar{t}$, t+X	Signal
α -function	✓	✓	-	-
Bkg. normalization		11–60%	2–38%	-
Top scale factors		-	5–14%	-
jet energy scale	✓	-	-	✓
jet energy resolution	✓	-	-	✓
jet mass scale		-	-	1%
jet mass resolution		-	-	8%
V tagging		-	-	6%(HP)–11%(LP)
V tagging extr.		-	-	8%–18%(HP), 2%–8%(LP)
b-tagging		-	-	3–7% (1b), 3.7–5.4% (2b)
b-tagged jet veto		-	3%	1%
trigger		-	-	2%
leptons Id, Iso		-	-	2%
τ Id		-	-	6–8% ($\ell\tau_h$), 10–13% ($\tau_h\tau_h$)
τ Id pt extr.	✓	-	-	0.5–18% ($\ell\tau_h$), 0.2–30% ($\tau_h\tau_h$)
τ energy scale	✓	-	-	1% ($\ell\tau_h$), 5 – 3% (τ_h)
pile-up		-	-	0.5%
QCD scale \dagger		-	-	2.5%–12.5%, 10%–19%
PDF scale \dagger		-	-	6%–37% ,10%–64%
PDF acceptance		-	-	0.5%–2%
luminosity		-	-	2.6%