

Source	Shape	$H^\pm$	Jets $\rightarrow \tau_h$	$t\bar{t}$	Single top	Electroweak
$\tau_h + p_T^{\text{miss}}$ trigger efficiency	✓	1.4	2.0	0.2	0.2	0.2
$\tau_h$ identification	✓	1.8	0.6	1.1	1.0	0.9
Lepton selection efficiency		2.3	—	2.7	2.7	2.7
Jet energy scale and resolution	✓	4.7	0.4	5.1	9.2	13.4
$\tau_h$ energy scale	✓	0.2	0.6	$< 0.1$	$< 0.1$	$< 0.1$
Unclustered $p_T^{\text{miss}}$ energy scale	✓	2.6	$< 0.1$	3.2	5.2	7.2
b-jet identification	✓	3.6	0.8	3.1	3.4	13.8
Luminosity		2.5	0.4	2.5	2.5	2.5
Pileup	✓	1.1	$< 0.1$	0.8	1.2	4.0
Jets mis-id. as $\tau_h$ estimation	✓	—	6.1	—	—	—
Cross section (RF scales, PDF)		—	0.8	5.5	5.3	3.6
Top quark mass		—	0.4	2.7	2.2	—
Acceptance (RF scales, PDF)		5.1	0.5	2.8	2.8	6.8
$t\bar{t}$ parton showering		—	—	6.1	—	—