

Source	Uncertainty		Signal	Background	
	Boosted W	Boosted H		Boosted W	Boosted H
Int. luminosity		2.3%	Yes	All	All
Diboson rate		15%	No	diboson	diboson
Single t quark rate		20%	No	t	t
QCD rate	—	100%	No	—	QCD
$t\bar{t}$ rate	5–12%	8.7%	No	$t\bar{t}$	$t\bar{t}$
W + jets rate	4–20%	6.0%	No	W + jets	W + jets
Trigger (e)	5%	2%	Yes	All	All
Trigger (μ)	5%	1%	Yes	All	All
Identification (e, μ)	1%	2%	Yes	All	All
Isolation (e, μ)	1%	—	Yes	All	—
Pileup	$\sigma_{\text{inel.}} \pm 5\%$		Yes	All (0–3%)	All (0–3%)
Jet energy scale	$\pm\sigma(p_T, \eta)$		Yes	All (0–12%)	All (0–4%)
Jet energy res.	$\pm\sigma(\eta)$		Yes	All (0–8%)	All (0–1%)
H_T reweighting	envelope(no weight, weight squared)		No	$t\bar{t}$, W + jets, QCD (17–34%)	$t\bar{t}$, W + jets (13–21%)
b tag: b	$\pm\sigma(p_T)$		Yes	All (0–16%)	All (3–8%)
b tag: light flavors	$\pm\sigma$		Yes	All (0–6%)	All (1–4%)
W/H tag: mass scale	$\pm\sigma(p_T, \eta)$		Yes	All (0–3%)	All (0–7%)
W/H tag: mass res.	$\pm\sigma(\eta)$		Yes	All (0–5%)	All (0–7%)
H tag: efficiency	3%		Yes	All	All
H tag: propagation	—	5%	Yes	—	All
W tag: τ_2/τ_1	$\pm\sigma$		Yes	All (0–2%)	—
W tag: $\tau_2/\tau_1 p_T$	$\pm\sigma(p_T)$		Yes	All (0–2%)	—
Renorm./fact. scale	envelope ($\times 2, \times 0.5$)		Shape	All (22–44%)	Z + jets, t (2–23%)
PDF	$\pm\sigma$		Shape	Z + jets, t, QCD (1–7%)	Z + jets, t (0–13%)