

Source	Variation	Leptonic	Hadronic	Signal
Integrated luminosity	$\pm 2.7\%$	○	○	✓
Muon identification efficiency	$\pm 2\%$	○	○	✓
Electron identification efficiency	$\pm 5\%$	○		✓
Single-lepton trigger (e/ μ)	$\pm 4\%/2\%$	○		✓
AK4 to AK8 b tagging	$\pm 3\%$		○	✓
Top quark tagging	$\pm 20\%$		○	✓
$t\bar{t}$ cross section	+4.8%, -5.5%		○	
tW cross section	$\pm 5.4\%$		○	
Matrix element μ_R/μ_F scales	$\pm 1\text{s.d.}(\mu_R/\mu_F)$	○		
$t\bar{t}$ parton shower scale	$\pm 1\text{s.d.}(\mu_R/\mu_F)$	○	○	
Jet energy scale	$\pm 1\text{s.d.}(p_T, \eta)$	○	○	✓
Jet energy resolution	$\pm 1\text{s.d.}(p_T, \eta)$	○	○	✓
b tagging	$\pm 1\text{s.d.}(p_T)$	○	○	✓
Light quark mistag rate	$\pm 1\text{s.d.}(p_T, \eta)$	○		✓
Pileup	$\pm 1\text{s.d.}(\sigma_{\text{mb}})$	○	○	✓
PDFs	$\pm 1\text{s.d.}$	○	○	✓
W+jets heavy-flavor fraction	$\pm 1\text{s.d.}$	○		
Top p_T reweighting	+1s.d.	○		
H_T trigger	$\pm 1\text{s.d.}(H_T)$		○	✓
Average b tagging rate fit	$\pm 1\text{s.d.}(p_T, \eta)$		○	
Alternative functional forms	$\pm 1\text{s.d.}(p_T, \eta)$		○	
b candidate mass	$\pm 1\text{s.d.}(M_b)$		○	
Multijet simulation nonclosure	$\pm 1\text{s.d.}(M_{t\bar{t}})$		○	