

Category	ATLAS uncertainty	CMS uncertainty	Correlation	Variations	Reduced correlation
t$\bar{t}$ modelling					
“Perturbative”	NLO choice (POWHEG vs. vs. MadGraph5_aMC@NLO)	ME & PS scales (POWHEG)	LOW	HALF, –LOW, –HALF	NONE
“Radiation”	ISR & FSR (low radiation)	h_{damp}	HALF	HIGH –HALF, –HIGH	LOW
“Non-perturbative”	Shower choice (PYTHIA vs. HERWIG)	Underlying event tune	HALF	HIGH, –HALF, –HIGH	LOW
PDF	PDF	PDF α_S	FULL	HIGH –FULL, –HIGH	HIGH
Detector response					
Jet flavour QCD	JET_Flavor_Composition, JET_Flavor_Response	JEC_FlavorQCD	LOW	HALF	NONE
Jet fragmentation	JET_Flavor_Response	JEC_Fragmentation	LOW	HALF	NONE
Jet pileup	JET_EtaInt_Modelling	JEC_PileUpDataMC	LOW		NONE
B-hadron semileptonic BR	JET_Flavor_Response	bhadron_semilep_BR	LOW		NONE
b-quark fragmentation	JET_Flavor_Response	bquark_fragmentation	LOW		NONE
Backgrounds					
DY (ee, $\mu\mu$)	DY (ee, $\mu\mu$)	DY (ee, $\mu\mu$)	FULL		HIGH
DY ($\tau\tau$)	DY ($\tau\tau$)	DY ($\tau\tau$)	FULL		HIGH
tW	tW	tW	FULL		HIGH
t $\bar{t}$	Fake lepton rate, Fake lepton shape	Fake lepton total, Leptonic τ decays	LOW		NONE
t $\bar{t}$ V	t $\bar{t}$ V	t $\bar{t}$ W, t $\bar{t}$ Z	HALF		LOW
Diboson	VV	WW, ZZ, WZ	HALF		LOW