

Channel	SS dilepton	Trilepton	$\gamma\gamma$ hadronic	$\gamma\gamma$ leptonic	b jet + lepton
Integrated luminosity	2.6	2.6	2.6	2.6	2.6
Pileup	1.0	1.0	0.3	0.8	0.2–3.0
Higgs boson branching fraction	5.0	5.0	5.0	5.0	5.0
t̄t cross section	7.5	7.5	7.5	7.5	7.5
Jet energy scale	0.5	0.6	1.2	1.0	5.2–15
Jet energy resolution	0.8	2.2	2.7	0.4	2.2–7.8
Signal PDF	6.0	6.0	5.9	5.2	<1–9.0
Top quark $p_T$ correction	—	—	1.4	3.2	0.8–4.3
$E_T^{\text{miss}}$	4.0	4.0	—	—	0.2–2.5
Trigger efficiency	1.0–2.0	—	1.0	1.0	<0.1–0.4
Identification and isolation					
- muon	1.0–2.0	1.0–3.0	—	0.3	0.01–0.04
- electron	2.0–4.0	2.0–6.0	—	0.3	<0.1–0.2
t̄W normalization	11.0	11.0	—	—	—
t̄Z normalization	13.0	13.0	—	—	—
WZ normalization	15.0	15.0	—	—	—
Lepton misidentification					
- electron	40.0	40.0	—	—	—
- muon	30.0	30.0	—	—	—
Charge misidentification	20.0	—	—	—	—
Photon identification efficiency	—	—	5.2	5.2	—
Corrections per photon					
- energy scale	—	—	0.1	0.1	—
- energy resolution	—	—	0.1	0.1	—
- material mismodeling	—	—	0.3	0.3	—
- nonlinearity	—	—	0.1	0.1	—
Jet identification efficiency	—	—	2.0	2.0	—
b jet identification efficiency	—	—	2.9	3.5	—
Higgs boson background					
- cross section scale factors	—	—	9.3	9.3	—
- PDF	—	—	8.1	8.1	—
b jet CSV distribution					
- purity	—	—	—	—	1.0–3.4
- statistical precision	—	—	—	—	1.0–24
t̄t + heavy flavor jets	—	—	—	—	0.3–1.0
Modeling W decay daughters	—	—	—	—	1.6–2.7
Generator parameters					
- QCD scale	—	—	—	—	1.0–4.9
- matching parton-jet threshold	—	—	—	—	1.3–9.4
- top quark mass	—	—	—	—	0.8–4.1