

Source of systematic uncertainty	Change in signal region yields (%)
Trigger efficiency	1
Lepton scale factors	1–5
Jet energy scale	1–12
Modeling of unclustered energy	1–25
b tagging	1–6
Top quark background normalization	3–20
$t\bar{t}Z$ background normalization	1–14
Multiboson background normalization	1–8
Drell-Yan background normalization	1–7
Integrated luminosity	2.5
Pileup modeling	1–6
Factorization/renormalization scales	1–19
PDFs	1–6
Top quark $p_T$ modeling	1–2
$t\bar{t}X$ (excl. $t\bar{t}Z$ ) background normalization	1–6
Simulated sample event count	2–27