

Source	Rate uncertainty	Signal
Normalization		
Integrated luminosity	2.5%	✓
$t\bar{t}$ cross section	8%	—
W+jets cross section	10%	—
Trigger eff. (e/ $\mu$ )	2%/2%	✓
Lepton id. eff. (e/ $\mu$ )	2%/2%	✓
Shape and normalization		
Jet energy scale	3%	✓
Jet energy resolution	1%	✓
b/c tagging	2%	✓
Light quark mistagging	2%	✓
Pileup	1%	✓
PDF	6%	✓
Top quark $p_T$ reweighting	15%	—
W+jets heavy/light flavor	1%	—
$\mu_R$ and $\mu_F$ scales	15%	—