

Process/Systematic	DY+jets	$t\bar{t}$	Variation
top p_T reweighting		✓	Not applied/applied twice
Z p_T	✓		Not applied/applied twice
Muon energy scale	✓	✓	$\pm 1\%$
Electron energy scale		✓	$\pm 1(2.5)\%$ for Barrel (EndCap)
Jet energy scale	✓	✓	$\pm 1\sigma$
B tagging		✓	$\pm 1\sigma$
p_T^{miss} recoil	✓	✓	$\pm 1\sigma$
Unclustered p_T^{miss}	✓	✓	$\pm 1\sigma$
PDF	✓	✓	max variation
Q^2	✓	✓	max variation