

Source	Uncertainty [%]	Shape	Categories
Z/W tagging efficiency	$8 \oplus 4.1 \times \ln(p_T/200 \text{ GeV})$		Z/W tag
Z/W mistag rate	$\pm 5.6\text{--}7.9$	✓	Z/W tag
H _{2b} /H _{1b} tagging efficiency	9		H _{2b} /H _{1b} tag
H _{2b} mistag rate	$\pm 14\text{--}18$	✓	H _{2b} tag
H _{1b} mistag rate	$\pm 3.2\text{--}4.6$	✓	H _{1b} tag
H _{2b} mistag rate (only t \bar{t})	18		H _{2b} tag
H _{1b} mistag rate (only t \bar{t})	3		H _{1b} tag
t tagging efficiency	$+7/\text{--}4$		top tag
t mistag rate	1.8	✓	top tag
Jet energy scale	$\pm 0.1\text{--}5.5$		CR+SR
Jet energy resolution	< 0.01		CR+SR
b tagging AK4	$\pm 1.8\text{--}3.0$	✓	CR
b tagging AK8	$\pm 2.7\text{--}7.3$	✓	H _{2b} /H _{1b} tag
Muon ID	$\pm 0.1\text{--}2.6$	✓	CR+SR
Muon trigger	$\pm 0.4\text{--}2.2$	✓	CR+SR
Muon tracker	$\pm 0.5\text{--}1.8$	✓	CR+SR
Electron ID	$\pm 0.3\text{--}3.1$	✓	CR+SR
Electron trigger	$\pm 0.4\text{--}0.5$	✓	CR+SR
Electron reconstruction	$\pm 0.1\text{--}3.0$	✓	CR+SR
Luminosity	2.5		CR+SR
Pileup reweighting	$\pm 0.1\text{--}3.3$	✓	CR+SR
μ_F and μ_R scales	6 variations	✓	CR+SR
PDF	100 samples	✓	CR+SR