

In order to control background uncertainties in the fit, the same training is applied to the  $t\bar{t}$  control region.

Source	$t\bar{t}$ (%)	CLFV signal Decay (%)	CLFV signal Production (%)
Trigger	1.2	1.2	2.9
Electron identification/isolation	1.6	1.6	3.9
Muon identification/isolation	0.6	0.6	0.7
Electron energy scale & resolution	<0.1	<0.1	<0.1
Muon momentum scale & resolution	<0.1	<0.1	<0.1
Jet energy scale & resolution	2.5	2.1	1.2
b tagging	3.1	3.9	4.5
Pileup	0.3	0.3	0.2
ME scale	0.9	0.8	0.7
ISR/FSR scale	1.5	2.9	1.9
PDF	0.8	0.8	0.9
UE tune	0.4	—	—
ME/PS matching	<0.1	—	—
Color reconnection	1.0	—	—
MC statistical	<0.1	<0.1	<0.1