Sources	B or S	Effect on	Magnitude	Nuisance parameters
Parton shower + selection bias for W, $R^{\ell qq}$	B+S	Shape+rate		4, for LL, LH, HL, HH
Parton shower + selection bias for t ²	В	Shape+rate		8, for LL, LH, HL, HH
Parton shower + selection bias for $t^{3,4}$, $R^{3q,4q}$	B+S	Shape+rate		4, for LL, LH, HL, HH
Parton shower + selection bias for q/g	В	Shape+rate		8, for LL, LH, HL, HH
Proxy uncertainty for $\mathbb{R}^{\ell qq}$	S	Rate	10-35%	2, for deep-W/WH
Proxy uncertainty for R ^{3q,4q}	S	Rate	12-43%	2, for deep-W/WH
Proxy uncertainty for unmatched	S	Rate	100%	2, for deep-W/WH
High- $p_{\rm T}$ extrapolation for W	S	Rate	100%	2, for deep-W/WH
High- $p_{\rm T}$ extrapolation for R ^{ℓqq}	S	Rate	23-30%	2, for deep-W/WH
High- $p_{\rm T}$ extrapolation for ${\rm R}^{3{\rm q}}$	S	Rate	16-34%	2, for deep-W/WH
High- $p_{\rm T}$ extrapolation for ${\rm R}^{4{\rm q}}$	S	Rate	24-33%	2, for deep-W/WH
QCD multijet normalization	В	Rate	5-40%	5, common for SR4,5
tt normalization	В	Rate	15-30%	5, common for SR4,5
Other background normalization	В	Rate	30%	5, common for SR4,5
m_{ij}, m_{ijj} tail shape	В	Shape		6, one for each SR
tī shape	В	Shape		6, one for each SR
Pileup and luminosity	S	Rate	1.7%	1, common for all SRs
PDFs, QCD renormalization and factorization scales	S	Rate	1.4%	1, common for all SRs
Jet energy scale and resolution	S	Shape		2, common for all SRs
Jet mass scale	S	Shape		1, common for all SRs