

Source	VPS (PA)	VPS (PB)
Simulated sample size	+15/−11	+15/−11
Quark-gluon likelihood	+13/−8	+13/−8
b tagging	±10	±10
JES & JER	+5.1/−5.2	+5.0/−5.4
Integrated luminosity	+2.8/−2.2	+2.4/−2.2
Trigger efficiency	+2.6/−2.1	+2.5/−2.2
Pileup	+2.3/−2.0	+2.2/−1.9
$\mu_R$ and $\mu_F$ scales	+13/−9	+13/−9
Parton shower scale	+11/−8	+11/−8
UE tune	+9.0/−5.3	+9.0/−5.2
Colour reconnection	±7.2	±7.1
Shower matching ( $h_{\text{damp}}$ )	+4.3/−2.8	+3.8/−2.7
$t\bar{t}c\bar{c}$ normalisation	+3.2/−4.4	+2.9/−4.5
Top quark $p_T$ modelling	±2.5	±2.4
PDFs	+2.2/−2.0	+2.2/−2.0