

Source	Relative uncertainty (%)
Data/simulation difference in the $\Lambda_b^0$ rapidity and two-body mass distributions	0.1
Background model in the $M(J/\psi\Lambda K^+K^-)$ distribution	0.6
Background model in the $M(\psi(2S)\Lambda)$ distribution	0.8
Background model in the $M(K^+K^-)$ distribution	0.8
Signal model in the $M(J/\psi\Lambda K^+K^-)$ distribution	0.8
Signal model in the $M(\psi(2S)\Lambda)$ distribution	1.1
Signal model in the $M(K^+K^-)$ distribution	0.5
Data/simulation difference in the $\Lambda_b^0$ resolution for the $\Lambda_b^0 \rightarrow J/\psi\Lambda\phi$ decay	6.6
Data/simulation difference in the $\Lambda_b^0$ resolution for the $\Lambda_b^0 \rightarrow \psi(2S)\Lambda$ decay	3.1
Data/simulation difference in the $\phi$ resolution	1.4
Finite size of simulated samples	2.9
Total systematic uncertainty	8.2