

Contribution	Relative error
$m_{J/\psi\pi}$ signal shape	2.3%
$m_{J/\psi\pi}$ background shape	0.2%
$B_c^+ \rightarrow J/\psi K^+$ component	0.1%
$m_{J/\psi\mu}$ signal shape	0.7%
$m_{J/\psi\mu}$ background shape	1.8%
B_c^+ feeddown	0.6%
Lower $m_{J/\psi\mu}$ fit range limit	1.6%
Upper $m_{J/\psi\mu}$ fit range limit	1.5%
$B_c^+ \rightarrow J/\psi \mu^+ \nu_\mu$ model dependence of efficiency	1.3%
Pion PID	0.8%
Muon PID	1.9%
Lifetime	0.2%
Multiple candidates	0.4%
$\Delta_{\text{sig/bkg}}(-2\ln\mathcal{L})$ requirement for $B_c^+ \rightarrow J/\psi \pi^+$	2.0%
$\Delta_{\text{sig/bkg}}(-2\ln\mathcal{L})$ requirement for $B_c^+ \rightarrow J/\psi \mu^+ \nu_\mu$	0.5%
Trigger simulation	3.4%
Total within selected $m_{J/\psi\mu}$ range	6.0%
$m_{J/\psi\mu}$ extrapolation	7.9%
Total	9.9%