

Contribution	Uncertainty type	Rel. uncertainty	$\Delta R(J/\psi) \cdot 10^{-2}$
$B_c^+$ form factors	10 shapes	—	18.2
fakes stat. non closure	bin-by-bin shapes	—	11.3
fakes background	2 shapes	—	4.2
fakes background	norm.	13.0% (+5% HM cat.)	2.5
finite MC size	bin-by-bin shapes	—	5.3
IP3D/ $\sigma_{\text{IP3D}}$ , $L_{xy}/\sigma_{L_{xy}}$ corr.	2 shapes	—	4.4
muon ID, iso, trigger	norm.	6.6%	2.5
$J/\psi$ comb. norm.	norm.	20.0%	1.3
$B_c^+$ bkg. BRs	norm.	10.0 – 38.0%	0.7
$H_b$ sample composition	norm.	10.0% for each $H_b^i$	0.5
Other	norm.	—	< 0.1