

Source	Uncertainty [%]			
	$R_{D_s^+/\pi^+}$	$R_{D_s^{*+}/\pi^+}$	$R_{D_s^{*+}/D_s^+}$	$\Gamma_{\pm\pm}/\Gamma$
Simulated $p_T(B_c^+)$ spectrum	1.5	1.9	0.4	0.1
Simulated $ \eta(B_c^+) $ spectrum	0.7	0.7	0.1	0.2
B_c^+ lifetime	0.1	< 0.1	—	—
D_s^+ lifetime	0.4	0.4	—	—
Tracking efficiency	1.0	1.0	< 0.1	< 0.1
Pile-up effects	1.0	1.0	—	—
χ^2/N_{dof} cut efficiency	3.2	3.2	—	—
Impact parameter cuts efficiency	0.2	0.2	—	—
BDT cut efficiency	1.3	1.3	—	—
Trigger efficiency	0.6	0.6	—	—
Other D_s^+ decay modes	1.6	1.6	—	—
 $B_c^+ \rightarrow J/\psi D_s^{(*)+}$ signal fit:				
D_s^+ signal mass modelling	1.8	0.5	1.3	0.8
D_s^{*+} signal mass modelling	0.6	1.2	1.7	2.7
Signal angular modelling	0.4	< 0.1	0.4	0.6
Background mass modelling	6.0	9.0	3.2	1.0
Background angular modelling	0.9	1.3	2.1	2.4
$B_s^0 \rightarrow \mu^+ \mu^- \phi$ triggers	0.8	0.5	1.3	4.0
D_s^{*+} branching fractions	< 0.1	< 0.1	< 0.1	0.7
 $B_c^+ \rightarrow J/\psi \pi^+$ signal fit:				
Signal modelling	4.2	4.2	—	—
PRD/comb. background modelling	5.8	5.8	—	—
CKM-suppr. background modelling	1.0	1.0	—	—
MC statistics	1.5	1.5	1.7	1.5
Total	10.8	12.6	5.0	5.9
$\mathcal{B}(D_s^+ \rightarrow \phi(K^+ K^-)\pi^+)$	5.9	5.9	—	—