

Source	$\mathcal{R}_{\chi_{c1}(3872)}^{\psi_2(3823)}$	$\mathcal{R}_{\psi(2S)}^{\psi_2(3823)}$	$\mathcal{R}_{\psi(2S)}^{\chi_{c1}(3872)}$
Signal and background shapes			
$B^+$ signal template	0.6	0.5	0.1
$X_{c\bar{c}}$ signal template	0.3	0.2	0.2
Polynomial components	2.5	2.7	0.2
$\psi_2(3823)$ decay model	0.2	0.2	—
Efficiency corrections	$< 0.1$	0.2	0.2
Trigger efficiency	1.1	1.1	1.1
Data-simulation agreement	1.0	1.0	1.0
Simulation sample size	0.3	0.4	0.4
Sum in quadrature	3.0	3.2	1.6