

Uncertainty source	$\mu^+\mu^-$ (%)	$J/\psi \pi^+\pi^-$ (%)
Luminosity <sup>a,b</sup>	3.5	3.5
Size of simulation sample	0.4–2.2	0.6–1.0
Trigger efficiency <sup>a</sup>	1–8	1–7
Global event cuts <sup>a,b</sup>	2.1	2.1
Muon identification <sup>a,b</sup>	1.1	1.1
Hadron identification	–	0.5
Track $\chi^2$ <sup>a,b</sup>	1	2
Tracking efficiency <sup>a</sup>	3.5	7.3
Vertex fit <sup>b</sup>	0.8	1.3
Unknown polarization <sup>a</sup>	15–26	15–26
Mass fit function	1.1	0.5
Pseudo-decay-time fits	2.7	2.7
$B(\psi(2S) \rightarrow e^+e^-)$	2.2	–
$B(\psi(2S) \rightarrow J/\psi \pi^+\pi^-)$	–	1.2
$B(J/\psi \rightarrow \mu^+\mu^-)$	–	1.0