

Process	$B^+ \rightarrow K^+ \mu^+ \mu^-$	$B^+ \rightarrow J/\psi(\mu^+ \mu^-)K^+$	$B^+ \rightarrow \psi(2S)(\mu^+ \mu^-)K^+$
Signal	DCB + Gaussian	Sum of 3 Gaussians	DCB + Gaussian
Comb. & other b bkg.	Exponential [†]	Exponential	Exponential
$B^+ \rightarrow K^*(892)^0/\pi^+ X$	DCB (+ expon.)	DCB + exponential	DCB + exponential
$B^+ \rightarrow \pi^+ X$	DCB	DCB	DCB
$B^+ \rightarrow J/\psi(\mu^+ \mu^-)K^+$	DCB (nearby q^2)	—	—
$B^+ \rightarrow \psi(2S)(\mu^+ \mu^-)K^+$	DCB (nearby q^2)	—	—

[†] In the last q^2 bin the exponential function is multiplied by $m_{K^+ \mu^+ \mu^-} - m_{\mu^+ \mu^-} - m_{K^+}$ to account for the phase space suppression.