Search mode	Reflection	Particle misidentification
$P^+_{B^0 p} \to J/\psi\, K^+ \pi^- p$	$B^+ \to J/\psi\, K^+ \pi^- \pi^+$	π^+ to p
	$B^+ \to J/\psi\, \pi^+ \pi^- K^+$	π^+ to K^+ and K^+ to p
$P^-_{\Lambda_b^0 \pi^-} \to J/\psi\, K^- \pi^- p$	$B^- \to J/\psi\, K^- \pi^- \pi^+$	π^+ to p
	$B^- \to J/\psi\, (\phi \to K^- K^+)\pi^-$	K^+ to p
$P^+_{\Lambda_b^0 \pi^+} \to J/\psi\, K^- \pi^+ p$	$B^+ \to J/\psi\, (\phi \to K^- K^+)\pi^+$	K^+ to p
$P^+_{B_s^0 p} \to J/\psi\, \phi p$	$B^+ \to J/\psi\, \phi K^+$	K^+ to p