

Variable	Selection		
	B^+	B^0	B_s^0
General track selection			
Leading (subleading) track p_T	$> 0.85 \text{ GeV}$	$> 0.85 (0.6) \text{ GeV}$	$> 0.85 (0.6) \text{ GeV}$
Track $ \eta $		> 2.4	
$\Delta z(\text{track}, \text{PV})$		$< 1 \text{ cm}$	
Muon candidate selection			
Muon p_T	$p_T > \begin{cases} 3.5 \text{ GeV} : \eta < 1.1 \\ 3.5 + \frac{1.5-3.5}{1.5-1.1} (\eta - 1.1) \text{ GeV} : 1.1 < \eta < 1.5 \\ 1.5 \text{ GeV} : \eta > 1.5 \end{cases}$		
Muon identification	Soft ID [17]		
$ M(\mu\mu) - m(J/\psi) $	$< 150 \text{ MeV}$		
B candidate selection			
SV fit probability	> 0.07		
$S_{xy,SV}$	> 4		
$\cos \alpha_B$	> 0.997		
Intermediate resonance masses			
$ M(K^+K^-) - m(\phi) $	—	$> 10 \text{ MeV}$	$< 10 \text{ MeV}$
$ M(K^+\pi^-) - m(K^{*0}) $	—	$< 50 \text{ MeV},$	$> 50 \text{ MeV},$
		closest permutation	both permutations