

Variable	Selection
$ m(\text{p}\pi^-) - m_{\text{PDG}}(\Lambda) $	$< 8 \text{ MeV}$
$ m(\Lambda\pi^-) - m_{\text{PDG}}(\Xi^-) $	$< 6 \text{ MeV}$
$p_{\text{T}}(\Lambda_{\text{b}}^0)$	$> 11.5 \text{ GeV}$
$p_{\text{T}}(\text{J}/\psi)$	$> 6.5 \text{ GeV}$
$p_{\text{T}}(\Xi^-)$	$> 2.6 \text{ GeV}$
$p_{\text{T}}(\Lambda)$	$> 2.2 \text{ GeV}$
$p_{\text{T}}(\text{K}^+)$	$> 1.2 \text{ GeV}$
$\mu^+ \mu^- \Xi^- \text{K}^+$ vertex fit probability	$> 5\%$
$\Lambda\pi^-$ vertex fit probability	$> 5\%$
$\text{p}\pi^-$ vertex fit probability	$> 1\%$
Ξ^- vertex displacement from Λ_{b}^0 vertex	$> 3 \text{ s.d.}$
Λ vertex displacement from Ξ^- vertex	$> 0 \text{ s.d.}$
Λ_{b}^0 vertex displacement from PV	$> 3 \text{ s.d.}$
Angle between Ξ^- momentum and displacement	$< 0.0447 \text{ rad}$
Angle between Λ momentum and displacement	$< 0.14 \text{ rad}$
Angle between Λ_{b}^0 momentum and displacement	$< 0.0447 \text{ rad}$
PV impact parameter for pion from Ξ^- decay	$> 0.4 \text{ s.d.}$
PV impact parameter for kaon	$> 0.4 \text{ s.d.}$