

Selection	$Z \rightarrow \mu^+ \mu^- + Y(1S) \rightarrow \mu^+ \mu^-$	$Z \rightarrow 4\mu$
All muons	$ \eta < 2.4, S_{\text{IP}} < 4$	$ \eta < 2.4, S_{\text{IP}} < 4$
Muon p_{T} [GeV]	$> 30, 15, 3, 3$	$> 20, 10, 5, 5$
Muon ID	<i>tight, tight, soft, soft</i>	<i>tight</i> for all muons
Isolation \mathcal{I}	$< 0.35, 0.35, 0.7, 0.7$	< 0.35 for all muons
Mass ranges [GeV]	$66 < m_{\mu^+ \mu^-}^Z < 116, 8.5 < m_{\mu^+ \mu^-}^{Y(1S)} < 11$	$80 < m_{4\mu} < 100$
Dimuon vertex fit probability	$> 5\%$	$> 5\%$
Four-muon vertex fit probability	$> 1\%$	