

m_ϕ [GeV]	$M_{X_{bb}}$ requirement [GeV]
25	[20, 34]
50	[41, 73]
75	[60, 100]
100	[78, 130]
125	[97, 160]
150	[120, 190]
175	[140, 210]
200	[160, 230]
250	>190