

	No b-tag			b-tag		
$H \rightarrow \tau\tau \rightarrow e\mu$	Low- D_ζ	Medium- D_ζ	High- D_ζ	Low- D_ζ	Medium- D_ζ	High- D_ζ
$H \rightarrow \tau\tau \rightarrow e\tau_h$	Loose- m_T		Tight- m_T	Loose- m_T		Tight- m_T
$H \rightarrow \tau\tau \rightarrow \mu\tau_h$	Loose- m_T		Tight- m_T	Loose- m_T		Tight- m_T
$H \rightarrow \tau\tau \rightarrow \tau_h\tau_h$						
$Z \rightarrow \mu\mu$						
$t\bar{t}(e\mu)$						
		Signal region (SR)				
		Control region				