

Label	Discriminator selections
H_{tag}	$\text{Dbtag} > 0.8$ and $105 < m_{\text{SD}} < 135$ GeV
t_{tag}	$SJ_{\text{csvmax}} > 0.5426$ and $\tau_3 / \tau_2 < 0.8$ and $105 < m_{\text{SD}} < 210$ GeV
b_{tag}	$\text{CSVv2} > 0.5426$
H_{antitag}	$m_{\text{SD}} < 30$ GeV
t_{antitag}	$SJ_{\text{csvmax}} > 0.5426$ and $\tau_3 / \tau_2 > 0.65$ and $30 < m_{\text{SD}} < 105$ GeV
b_{antitag}	$\text{CSVv2} < 0.5426$

Signal region

Region	top jet	Higgs jet	b jet
SR	t_{tag}	H_{tag}	b_{tag}

Background estimation

Region	top jet	Higgs jet	b jet
CR1	t_{antitag}	H_{antitag}	b_{tag}
CR2	t_{antitag}	H_{tag}	b_{tag}
CR3	t_{tag}	H_{antitag}	b_{tag}

Background validation

Region	top jet	Higgs jet	b jet
CR4	t_{tag}	H_{tag}	b_{antitag}
CR5	t_{antitag}	H_{antitag}	b_{antitag}
CR6	t_{antitag}	H_{tag}	b_{antitag}
CR7	t_{tag}	H_{antitag}	b_{antitag}