

Baseline selection

Jets $N_j \geq 2$ ($R = 0.4$), $p_T > 30$ GeV, $|\eta| < 2.4$

H_T $H_T > 300$ GeV

$p_T^{\text{miss}} > 250$ GeV

p_T^{miss} $\Delta\phi(\vec{p}_T^{\text{miss}}, j_1) > 0.5$

$\Delta\phi(\vec{p}_T^{\text{miss}}, j_2) > 0.15$

$\Delta\phi(\vec{p}_T^{\text{miss}}, j_3) > 0.15$ (when applicable)

Veto electron $p_T > 5$ GeV, $|\eta| < 2.5$, $p_T^{\text{sum}} < 0.1 p_T$

Veto muon $p_T > 5$ GeV, $|\eta| < 2.4$, $p_T^{\text{sum}} < 0.2 p_T$

Veto τ_h $p_T > 20$ GeV, $|\eta| < 2.4$, $m_T < 100$ GeV

PF charged candidates, $|\eta| < 2.5$, $m_T < 100$ GeV

Veto track $p_T > 5$ GeV, $p_T^{\text{sum}} < 0.2 p_T$ for electron and muon tracks

$p_T > 10$ GeV, $p_T^{\text{sum}} < 0.1 p_T$ for charged-hadron tracks

Low Δm baseline selection

N_t, N_W, N_{res} $N_t = N_W = N_{\text{res}} = 0$

m_T^b $m_T^b < 175$ GeV (for events with $N_b \geq 1$)

ISR jet $N_j(\text{ISR}) = 1$ ($R = 0.8$), $p_T^{\text{ISR}} > 200$ GeV, $|\eta| < 2.4$

$\Delta\phi(\vec{p}_T^{\text{miss}}, j_{\text{ISR}}) > 2$

p_T^{miss} $p_T^{\text{miss}} / \sqrt{H_T} > 10 \sqrt{\text{GeV}}$

High Δm baseline selection

Jets $N_j \geq 5$ ($R = 0.4$), $p_T > 30$ GeV, $|\eta| < 2.4$

b tagging $N_b \geq 1$, $p_T > 20$ GeV

p_T^{miss} $\Delta\phi(\vec{p}_T^{\text{miss}}, j_{1,2,3,4}) > 0.5$