

2016:

$p_T^{\text{miss}} > 120 \text{ GeV}$ and $H_T^{\text{miss}} > 120 \text{ GeV}$, or
 $H_T > 300 \text{ GeV}$ and $p_T^{\text{miss}} > 110 \text{ GeV}$, or
 $H_T > 900 \text{ GeV}$, or jet $p_T > 450 \text{ GeV}$

2017 and 2018:

$p_T^{\text{miss}} > 120 \text{ GeV}$ and $H_T^{\text{miss}} > 120 \text{ GeV}$, or
 $H_T > 60 \text{ GeV}$ and $p_T^{\text{miss}} > 120 \text{ GeV}$ and $H_T^{\text{miss}} > 120 \text{ GeV}$, or
 $H_T > 500 \text{ GeV}$ and $p_T^{\text{miss}} > 100 \text{ GeV}$ and $H_T^{\text{miss}} > 100 \text{ GeV}$, or
 $H_T > 800 \text{ GeV}$ and $p_T^{\text{miss}} > 75 \text{ GeV}$ and $H_T^{\text{miss}} > 75 \text{ GeV}$, or
 $H_T > 1050 \text{ GeV}$, or jet $p_T > 500 \text{ GeV}$

Trigger

Jet selection

$R = 0.4$, $p_T > 30 \text{ GeV}$, $|\eta| < 2.4$

b-tagged jet selection

$p_T > 20 \text{ GeV}$, $|\eta| < 2.4$ and b tag

H_T

$H_T > 250 \text{ GeV}$

p_T^{miss}

$p_T^{\text{miss}} > 250 \text{ GeV}$ for $H_T < 1200 \text{ GeV}$ or $N_j = 1$, else $p_T^{\text{miss}} > 30 \text{ GeV}$

$\Delta\phi_{\text{min}} = \Delta\phi(\vec{p}_T^{\text{miss}}, j_{1,2,3,4}) > 0.3$

$|\vec{p}_T^{\text{miss}} - \vec{H}_T^{\text{miss}}|/p_T^{\text{miss}} < 0.5$

Inclusive M_{T2} search:

$M_{T2} > 200 \text{ GeV}$ for $H_T < 1500 \text{ GeV}$, else $M_{T2} > 400 \text{ GeV}$

M_{T2} (if $N_j \geq 2$)

Disappearing tracks search:

$M_{T2} > 200 \text{ GeV}$

p_T^{sum} cone (isolation)

Veto eor μ : $\Delta R = \min(0.2, \max(10 \text{ GeV}/p_T^{\text{lep}}, 0.05))$

Veto track: $\Delta R = 0.3$

Veto electron

$p_T > 10 \text{ GeV}$, $|\eta| < 2.4$, $p_T^{\text{sum}} < 0.1 p_T^{\text{lep}}$

Veto electron track

$p_T > 5 \text{ GeV}$, $|\eta| < 2.4$, $M_T < 100 \text{ GeV}$, $p_T^{\text{sum}} < 0.2 p_T^{\text{lep}}$

Veto muon

$p_T > 10 \text{ GeV}$, $|\eta| < 2.4$, $p_T^{\text{sum}} < 0.2 p_T^{\text{lep}}$

Veto muon track

$p_T > 5 \text{ GeV}$, $|\eta| < 2.4$, $M_T < 100 \text{ GeV}$, $p_T^{\text{sum}} < 0.2 p_T^{\text{lep}}$

Veto track

$p_T > 10 \text{ GeV}$, $|\eta| < 2.4$, $M_T < 100 \text{ GeV}$, $p_T^{\text{sum}} < 0.1 p_T^{\text{track}}$