

Triggered signature	Trigger description	HLT rate [Hz]
Disappearing track	$p_T^{\text{miss}} > 105 \text{ GeV} + \geq 1 \text{ isolated track } (p_T > 50 \text{ GeV})$	4
Disp. tau	$\geq 2 \text{ disp. } \tau_h (p_T > 32 \text{ GeV}, d_0 > 0.005 \text{ cm})^\dagger$ $\geq 1 \text{ disp. } \tau_h (p_T > 24 \text{ GeV}) + \geq 1 \mu (p_T > 24 \text{ GeV})^\dagger$ $\geq 1 \text{ disp. } \tau_h (p_T > 34 \text{ GeV}) + \geq 1 e (p_T > 34 \text{ GeV})^\dagger$	36
Disp. jet	$\geq 2 \text{ jet } (p_T > 40 \text{ GeV}, \text{ inclusive tagging req.}) + H_T > 430 \text{ GeV}$ $\geq 2 \text{ jet } (p_T > 40 \text{ GeV}, \text{ disp. tagging req.})$ $+ H_T > 240 \text{ GeV} + \geq 1 \text{ L1 } \mu (p_T > 6 \text{ GeV})$	53 (163)
HCAL-based disp. and delayed jet	$\geq 2 \text{ jet } (p_T > 40 \text{ GeV}, \text{ displ. tagging req.}) + H_T > 170 \text{ GeV}^\dagger$ $\geq 2 \text{ jet } (p_T > 40 \text{ GeV}, \text{ inclusive tagging req.}) + H_T > 200 \text{ GeV}^\dagger$ $\geq 1 \text{ jet } (p_T > 60 \text{ GeV}, \text{ NHEF} > 0.7) + H_T > 200 \text{ GeV}^\dagger$	35
ECAL-based delayed jet	$\geq 1 \text{ inclusive and trackless jet}^\dagger$	37 (77)
Delayed diphoton	$\geq 2 \text{ ECAL superclusters } (\text{time} > 1 \text{ ns})^\dagger$	15
Disp. photon + H_T	$\geq 1 \gamma (p_T > 60 \text{ GeV}) + \text{PF } H_T > 350 \text{ GeV}$	12
Disp. single-muon and dimuon	$\geq 2 \text{ L2 } \mu (p_T > 10 \text{ GeV}, d_0 > 1 \text{ cm})^\dagger$ $\geq 2 \text{ L3 } \mu (p_T > 16, 10 \text{ GeV}, d_0 > 0.01 \text{ cm})^\dagger$ $\geq 2 \text{ L2 } \mu (p_T > 23 \text{ GeV})$ $\geq 1 \text{ L2 } \mu (p_T > 50 \text{ GeV}, d_0 > 1 \text{ cm})^\dagger$ $\geq 1 \text{ L3 } \mu (p_T > 30 \text{ GeV}, d_0 > 0.01 \text{ cm})^\dagger$	165
Double disp. L3 muon	$\geq 2 \text{ L3 } \mu (p_T > 43 \text{ GeV})$	2
Disp. L3 muon + photon	$\geq 1 \text{ L3 } \mu (p_T > 43 \text{ GeV}) + \gamma (p_T > 43 \text{ GeV})$ $\geq 1 \text{ L3 } \mu (p_T > 38 \text{ GeV}, d_0 > 1 \text{ cm}) + \gamma (p_T > 38 \text{ GeV})$	5
Dimuon scouting	$\geq 2 \text{ scouting } \mu (p_T > 3 \text{ GeV})$	4200
MDS in CSCs	$\geq 1 \text{ CSC cluster } (\geq 200/500 \text{ hits in outer/inner rings})^\dagger$ $\geq 2 \text{ CSC clusters } (\geq 75 \text{ hits})^\dagger$	14
MDS in CSCs + X	$\geq 1 \text{ CSC cluster } (\geq 100 \text{ hits}) + \geq 1 e (p_T > 5 \text{ GeV})^\dagger$ $\geq 1 \text{ CSC cluster } (\geq 100 \text{ hits}) + \geq 1 \text{ L3 } \mu (p_T > 5 \text{ GeV})^\dagger$ $\geq 1 \text{ CSC cluster } (\geq 100 \text{ hits}) + \geq 1 \tau_h (p_T > 10 \text{ GeV})^\dagger$ $\geq 1 \text{ CSC cluster } (\geq 50 \text{ hits}) + \geq 1 \gamma (p_T > 20 \text{ GeV})^\dagger$	14
MDS in DTs	$\text{L1 } p_T^{\text{miss}} > 150 \text{ GeV} + \geq 1 \text{ DT cluster } (\geq 50 \text{ hits})^\dagger$ $\geq 1 \text{ L1 CSC cluster} + \geq 1 \text{ DT cluster } (\geq 50 \text{ hits})^\dagger$	9
Jet No-BPTX	$\geq 1 \text{ out-of-time jet } (E > 60 \text{ GeV})$	1
Muon No-BPTX	$\geq 1 \text{ out-of-time L2 } \mu (p_T > 40 \text{ GeV})$	7