Algorithm	Requirements (p_T, E_T, $m_{\mu\mu}$, and m_{jj} in GeV)
Muons	
Single μ	$p_T > 22$ & Tight quality
Double μ	$p_T > 15, 7$ & Medium quality
Double μ	$p_T > 15, 5$ & Tight quality
Double μ	$p_T > 8, 8$ & Tight quality
Double μ + mass	$p_T > 4.5$ & $\|\eta\| < 2.0$ & Tight quality & OS & $m_{\mu\mu} > 7$
Double μ + ΔR	$p_T > 4$ & Tight quality & OS & $\Delta R < 1.2$
Double μ + ΔR	$p_T > 0$ & $\|\eta\| < 1.5$ & Tight quality & OS & $\Delta R < 1.4$
Double μ + BX	$p_T > 0$ & $\|\eta\| < 1.4$ & Medium quality & Non-colliding BX
Triple μ	$p_T > 5, 3, 3$ & Medium quality
Triple μ	$p_T > 3, 3, 3$ & Tight quality
Triple μ + mass	$p_T > 5, 3.5, 2.5$ & Med. qual.; two μ OS & $p_T > 5, 2.5$ & $5 < m_{\mu\mu} < 17$
Triple μ + mass	Three μ any qual.; two μ & $p_T > 5, 3$ & Tight qual. & OS & $m_{\mu\mu} < 9$
Electrons / photons	(e/γ)
Single e/γ	$p_T > 60$
Single e/γ	$p_T > 36$ & $\|\eta\| < 2.5$
Single e/γ	$p_T > 28$ & $\|\eta\| < 2.5$ & Loose isolation
Double e/γ	$p_T > 25, 12$ & $\|\eta\| < 2.5$
Double e/γ	$p_T > 22, 12$ & $\|\eta\| < 2.5$ & Loose isolation
Triple e/γ	$p_T > 18, 17, 8$ & $\|\eta\| < 2.5$
Triple e/γ	$p_T > 16, 16, 16$ & $\|\eta\| < 2.5$
Tau leptons (τ)	
Single τ	$p_T > 120$ & $\|\eta\| < 2.1$
Double τ	$p_T > 32$ & $\|\eta\| < 2.1$ & Isolation
Jets	
Single jet	$p_T > 180$
Single jet + BX	$p_T > 43$ & $\|\eta\| < 2.5$ & Non-colliding BX
Double jet	$p_T > 150$ & $\|\eta\| < 2.5$
Double jet + $\Delta\eta$	$p_T > 112$ & $\|\eta\| < 2.3$ & $\Delta\eta < 1.6$
Double jet + mass	$p_T > 115, 35$; two jets $p_T > 35$ & $m_{jj} > 620$
Double jet + mass	$p_T > 30$ & $\|\eta\| < 2.5$ & $\Delta\eta < 1.5$ & $m_{jj} > 300$
Triple jet	$p_T > 95, 75, 65$; two jets $p_T > 75, 65$ & $\|\eta\| < 2.5$
Energy sums	
E_T^{miss}	$E_T^{miss} > 100$ (Vector sum of p_T of calorimeter deposits with $\|\eta\| < 5.0$)
H_T	$H_T > 360$ (Scalar sum of p_T of all jets with $p_T > 30$ and $\|\eta\| < 2.5$)
E_T	$E_T > 2000$ (Scalar sum of p_T of calorimeter deposits with $\|\eta\| < 5.0$)

Terms used

Tight quality: muons with hits in at least 3 different muon stations.

Medium quality: muons with hits in at least 2 different muon stations.

The "non-colliding BX" requirement selects beam-empty events.

$\Delta R \equiv ((\Delta\phi)^2 + (\Delta\eta)^2)^{1/2}$, and phi is the azimuthal angle in radians.

OS: Opposite Sign (of electric charge).

E_T: Scalar sum of p_T of calorimeter deposits.

H_T: Scalar sum of p_T of jets.

Isolation and loose isolation: The isolation requires an upper limit on the transverse calorimeter energy surrounding the candidate. The limit depends on the pileup, the Level-1 candidate E_T and $|\eta|$. Details are given in Sections **??** and **??**.