Trigger	Typical offline selection	Trigger Selection		L1 Peak Rate [kHz] $L=2.0\times10^{34}$ cm^{-2}s^{-1}	HLT Peak Rate [Hz]
		L1 [GeV]	HLT [GeV]		
Single leptons	Single isolated μ, $p_{\mathrm{T}} > 27$ GeV	20	26 (i)	16	218
	Single isolated tight e, $p_{\mathrm{T}} > 27$ GeV	22 (i)	26 (i)	31	195
	Single μ, $p_{\mathrm{T}} > 52$ GeV	20	50	16	70
	Single e, $p_{\mathrm{T}} > 61$ GeV	22 (i)	60	28	20
	Single τ, $p_{\mathrm{T}} > 170$ GeV	100	160	1.4	42
Two leptons	Two μ, each $p_{\mathrm{T}} > 15$ GeV	2×10	2×14	2.2	30
	Two μ, $p_{\mathrm{T}} > 23, 9$ GeV	20	22, 8	16	47
	Two very loose e, each $p_{\mathrm{T}} > 18$ GeV	2×15 (i)	2×17	2.0	13
	One e & one μ, $p_{\mathrm{T}} > 8, 25$ GeV	20 (μ)	7, 24	16	6
	One loose e & one μ, $p_{\mathrm{T}} > 18, 15$ GeV	15, 10	17, 14	2.6	5
	One e & one μ, $p_{\mathrm{T}} > 27, 9$ GeV	22 (e, i)	26, 8	21	4
	Two τ, $p_{\mathrm{T}} > 40, 30$ GeV	20 (i), 12 (i) (+jets, topo)	35, 25	5.7	93
	One τ & one isolated μ, $p_{\mathrm{T}} > 30, 15$ GeV	12 (i), 10 (+jets)	25, 14 (i)	2.4	17
	One τ & one isolated e, $p_{\mathrm{T}} > 30, 18$ GeV	12 (i), 15 (i) (+jets)	25, 17 (i)	4.6	19
Three leptons	Three very loose e, $p_{\mathrm{T}} > 25, 13, 13$ GeV	20, 2×10	24, 2×12	1.6	0.1
	Three μ, each $p_{\mathrm{T}} > 7$ GeV	3×6	3×6	0.2	7
	Three μ, $p_{\mathrm{T}} > 21, 2 \times 5$ GeV	20	20, 2×4	16	9
	Two μ & one loose e, $p_{\mathrm{T}} > 2 \times 11, 13$ GeV	2×10 (μ)	$2 \times 10, 12$	2.2	0.5
	Two loose e & one μ, $p_{\mathrm{T}} > 2 \times 13, 11$ GeV	$2 \times 8, 10$	$2 \times 12, 10$	2.3	0.1
Signle photon	One loose γ, $p_{\mathrm{T}} > 145$ GeV	24 (i)	140	24	47
Two photons	Two loose γ, each $p_{\mathrm{T}} > 55$ GeV	2×20	2×50	3.0	7
	Two γ, $p_{\mathrm{T}} > 40, 30$ GeV	2×20	35, 25	3.0	21
	Two isolated tight γ, each $p_{\mathrm{T}} > 25$ GeV	2×15 (i)	2×20 (i)	2.0	15
Single jet	Jet ($R = 0.4$), $p_{\mathrm{T}} > 435$ GeV	100	420	3.7	35
	Jet ($R = 1.0$), $p_{\mathrm{T}} > 480$ GeV	111 (topo: $R = 1.0$)	460	2.6	42
	Jet ($R = 1.0$), $p_{\mathrm{T}} > 450$ GeV, $m_{\mathrm{jet}} > 45$ GeV	111 (topo: $R = 1.0$)	420, $m_{\mathrm{jet}} > 35$	2.6	36
b–jets	One b ($\epsilon = 60\%$), $p_{\mathrm{T}} > 285$ GeV	100	275	3.6	15
	Two b ($\epsilon = 60\%$), $p_{\mathrm{T}} > 185, 70$ GeV	100	175, 60	3.6	11
	One b ($\epsilon = 40\%$) & three jets, each $p_{\mathrm{T}} > 85$ GeV	4×15	4×75	1.5	14
	Two b ($\epsilon = 70\%$) & one jet, $p_{\mathrm{T}} > 65, 65, 160$ GeV	$2 \times 30, 85$	$2 \times 55, 150$	1.3	17
	Two b ($\epsilon = 60\%$) & two jets, each $p_{\mathrm{T}} > 65$ GeV	4×15, $|\eta| < 2.5$	4×55	3.2	15
Multijets	Four jets, each $p_{\mathrm{T}} > 125$ GeV	3×50	4×115	0.5	16
	Five jets, each $p_{\mathrm{T}} > 95$ GeV	4×15	5×85	4.8	10
	Six jets, each $p_{\mathrm{T}} > 80$ GeV	4×15	6×70	4.8	4
	Six jets, each $p_{\mathrm{T}} > 60$ GeV, $|\eta| < 2.0$	4×15	6×55, $|\eta| < 2.4$	4.8	15
$E_{\mathrm{T}}^{\mathrm{miss}}$	$E_{\mathrm{T}}^{\mathrm{miss}} > 200$ GeV	50	110	5.1	94
B-physics	Two μ, $p_{\mathrm{T}} > 11, 6$ GeV, $0.1 < \mathrm{m}(\mu, \mu) < 14$ GeV	11, 6	11, 6 (di-μ)	2.9	55
	Two μ, $p_{\mathrm{T}} > 6, 6$ GeV, $2.5 < \mathrm{m}(\mu, \mu) < 4.0$ GeV	2×6 (J/ψ, topo)	2×6 (J/ψ)	1.4	55
	Two μ, $p_{\mathrm{T}} > 6, 6$ GeV, $4.7 < \mathrm{m}(\mu, \mu) < 5.9$ GeV	2×6 (B, topo)	2×6 (B)	1.4	6
	Two μ, $p_{\mathrm{T}} > 6, 6$ GeV, $7 < \mathrm{m}(\mu, \mu) < 12$ GeV	2×6 (Υ, topo)	2×6 (Υ)	1.2	12
Main Rate B-physics and Light States Rate				86	1750 200