Category	Preselection	Additional requirements	Trigger requirement
Lepton multijet	$M_R > 550 \,\text{GeV}$ & $R^2 > 0.20$	$m_T > 120 \,\text{GeV}$	Single lepton
Lepton seven-jet	$M_R > 550 \,\text{GeV}$ & $R^2 > 0.20$	$m_T > 120 \,\text{GeV}$	Single lepton
Boosted W 4–5 jet	$M_R > 800 \,\text{GeV}$ & $R^2 > 0.08$	$\Delta\phi_R < 2.8$	H_T, jet p_T
Boosted W 6 jet	$M_R > 800 \,\text{GeV}$ & $R^2 > 0.08$	$\Delta\phi_R < 2.8$	H_T, jet p_T
Boosted top	$M_R > 800 \,\text{GeV}$ & $R^2 > 0.08$	$\Delta\phi_R < 2.8$	H_T, jet p_T
Dijet	$M_R > 650 \,\text{GeV}$ & $R^2 > 0.30$	$\Delta\phi_R < 2.8$	Hadronic razor
Multijet	$M_R > 650 \,\text{GeV}$ & $R^2 > 0.30$	$\Delta\phi_R < 2.8$	Hadronic razor
Seven-jet	$M_R > 650 \,\text{GeV}$ & $R^2 > 0.30$	$\Delta\phi_R < 2.8$	Hadronic razor