

Preselection

good primary vertices	> 0
number of AK8 jets	≥ 1
number of AK4 jets	≥ 2
M_R	$> 800 \text{ GeV}$
R^2	> 0.08
SR categories:	
number of iso select leptons $\ell_{isel} : e, \mu$	had lep lepJet
number of iso tracks	$= 0$ $= 1$ $-$
number of leptonic jets	$= 0$ $= 0$ ≥ 1
$\Delta\phi_R \equiv \Delta\phi_{\text{megajets}}$	< 2.8 $-$ $-$
m_T	$-$ $> 120 \text{ GeV}$ $> 140 \text{ GeV}$
$\Delta\phi_{J,W} \equiv \Delta\phi(\vec{j}_{\text{AK8}}^{\text{lead}}, \vec{\ell} + \vec{p}_T^{\text{miss}})$	$-$ $-$ > 0.8