

Preselection

good primary vertices

$$> 0$$

number of AK8 jets

$$\geq 1$$

number of AK4 jets

$$\geq 2$$

$$M_R$$

$$> 800 \text{ GeV}$$

$$R^2$$

$$> 0.08$$

SR categories:

had

lep

lepJet

number of iso select leptons $\ell_{isel} : e, \mu$

$$= 0$$

$$= 1$$

$$-$$

number of iso tracks

$$= 0$$

$$= 0$$

$$= 0$$

number of leptonic jets

$$= 0$$

$$= 0$$

$$\geq 1$$

$$\Delta\phi_R \equiv \Delta\phi_{\text{megajets}}$$

$$< 2.8$$

$$-$$

$$-$$

$$m_T$$

$$-$$

$$> 120 \text{ GeV}$$

$$> 140 \text{ GeV}$$

$$\Delta\phi_{J,W} \equiv \Delta\phi(j_{\text{AK8}}^{\text{lead}}, \vec{\ell} + \vec{p}_T^{\text{miss}})$$

$$-$$

$$-$$

$$> 0.8$$