

Inclusive selection

$$p_{\mathrm{T}}(\mathrm{J}_{1,2}) > 200 \text{ GeV}, \eta(\mathrm{J}_{1,2}) < 2.4$$

$$R_{\mathrm{T}} > 0.15$$

$$\Delta\eta < 1.5$$

$$m_{\mathrm{T}} > 1.5 \text{ TeV}$$

$$p_{\mathrm{T}}^{\mathrm{miss}} \text{ filters}$$

$$\Delta R(\mathrm{j}_{1,2}, c_{\mathrm{nonfunctional}}) > 0.1$$

$$\text{veto } f_{\gamma}(\mathrm{j}_1) > 0.7 \ \& \ p_{\mathrm{T}}(\mathrm{j}_1) > 1.0 \text{ TeV}$$

$$\text{veto } -3.05 < \eta_{\mathrm{j}} < -1.35 \ \& \ -1.62 < \phi_{\mathrm{j}} < -0.82 *$$

$$\Delta\phi_{\mathrm{min}} < 0.8$$

SVJ ℓ selection

$$\text{multilepton region: } N_{\mathrm{e}} + N_{\mu} \geq 1$$