

Events with  $W \rightarrow \mu$  (from truth)

Mini-isolation

MUID Tight, MCP Cuts

$$|\eta| < 2.5, p_T < 20 \text{ GeV}$$



Truth-matching to  $W$  muon



Match muon to jet



$$\text{MI10}/p_T < 5\%$$

$\chi^2_{\text{DoF}}$  tagging

STACO CB, MCP Cuts

$$|\eta| < 2.5, p_T < 20 \text{ GeV}$$



Truth-matching to  $W$  muon



Match muon to jet



$$z_0 < 3 \text{ mm}$$

$$d_0 < 3 \text{ mm}$$

$$\chi^2_{\text{DoF}} < 3.2$$