













Events / 0.30

ATLAS Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC tqH $H \rightarrow \tau\tau$

reg1mtau1ltau

SM Higgs

 $Z \rightarrow \tau\tau$ $t\bar{t}$ only τ_{sub} real $t\bar{t} \rightarrow bWcH \times 60$ $t\bar{t} \rightarrow bWuH \times 60$

Diboson

Rare

 $t\bar{t}V$

data

 $cg \rightarrow tH \times 1000$ $ug \rightarrow tH \times 200$

Data/Bkg

 $\Delta R(\tau, \tau)$ 