













Events / 0.07

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

reg1mtau1ltau

SM Higgs

 $Z \rightarrow \tau\tau$ $t\bar{t}V$

—•— data

— cg $\rightarrow tH \times 100000$ — ug $\rightarrow tH \times 4000$

Diboson

 $t\bar{t}$ only τ_{sub} real— $\bar{t}t \rightarrow bWcH \times 5000$ — $\bar{t}t \rightarrow bWuH \times 1000$

Data/Bkg

1.4
1.2
1.0
0.8
0.6 $E_{\text{vis-}\tau,2}/E_{\tau,2}$

0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

