













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  $\tau_{\text{sub}}$  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

