













Events / 10.00 GeV

 $\times 10^3$ **ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC tqH $H \rightarrow \tau\tau$ $t_h \tau_{\text{lep}} \tau_{\text{had}} - 2j$

Other MC

b-jets fake τ τ_W

QCD Fake lep

 $\bar{t}t \rightarrow bWcH \times 200$ $\bar{t}t \rightarrow bWuH \times 200$ $\bar{t}t$ lepton fake τ Other Fake τ

data

 $cg \rightarrow tH \times 3000$ $ug \rightarrow tH \times 600$

Data/Bkg

1.4
1.2
1.0
0.8
0.6 $m_{\tau\tau, \text{vis}} [\text{GeV}]$ 