













Events / 0.25

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

SM Higgs

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

data

 $cg \rightarrow tH \times 2000$  $ug \rightarrow tH \times 400$ 

Diboson

Rare

 $t\bar{t}V$  $t\bar{t} \rightarrow bWcH \times 100$  $t\bar{t} \rightarrow bWuH \times 80$ 

Data/Bkg

1.4  
1.2  
1.0  
0.8  
0.6 $\Delta R(\tau, \text{light-jet}, \text{min})$ 