













Events / 0.30

ATLAS Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC tqH $H \rightarrow \tau\tau$ $t_h \tau_{\text{had}} \tau_{\text{had}}^{-3j} SS(\ell)$

SM Higgs

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

data

 $cg \rightarrow tH \times 1000$ $ug \rightarrow tH \times 300$

Diboson

Rare

 $t\bar{t}V$ $t\bar{t} \rightarrow bWcH \times 100$ $t\bar{t} \rightarrow bWuH \times 90$

Data/Bkg

1.4
1.2
1.0
0.8
0.6 $\Delta\phi(\tau\tau, P_{\text{miss}}^T)$

0

0.5

1

1.5

2

2.5

3