











Events / 0.50

Data/Bkg

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

$t_l \tau_{\text{had}} \tau_{\text{had}}$



Other MC



b-jets fake τ



τ_W



Other Fake τ



tuH merged $\times 4$



$t\bar{t}$



lepton fake τ



double fake τ



data

80

70

60

50

40

30

20

10

0

1.4

1.2

1.0

0.8

0.6

0

1

2

3

4

5

6

 $\Delta R(\tau, \text{fcnc-j})$

