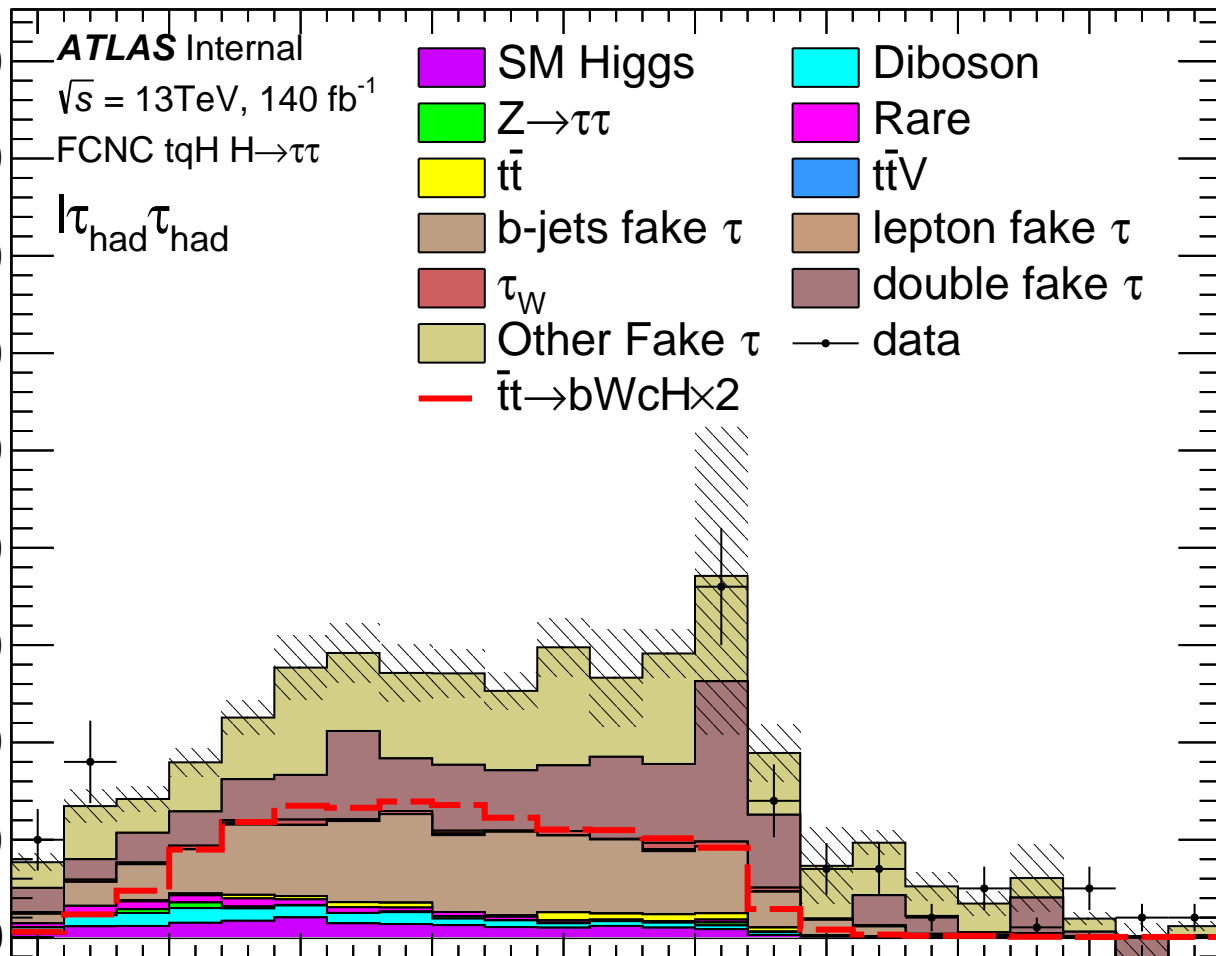
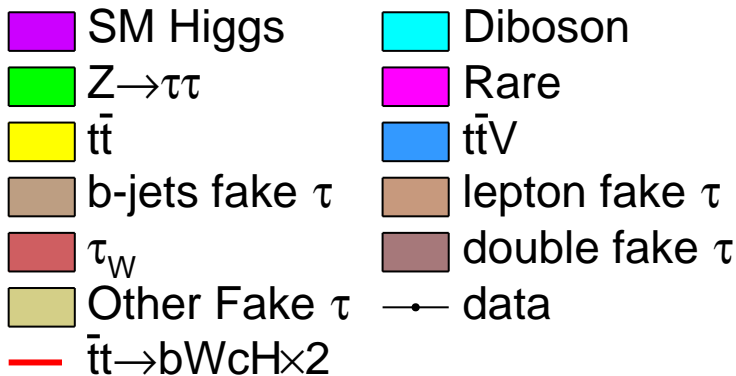


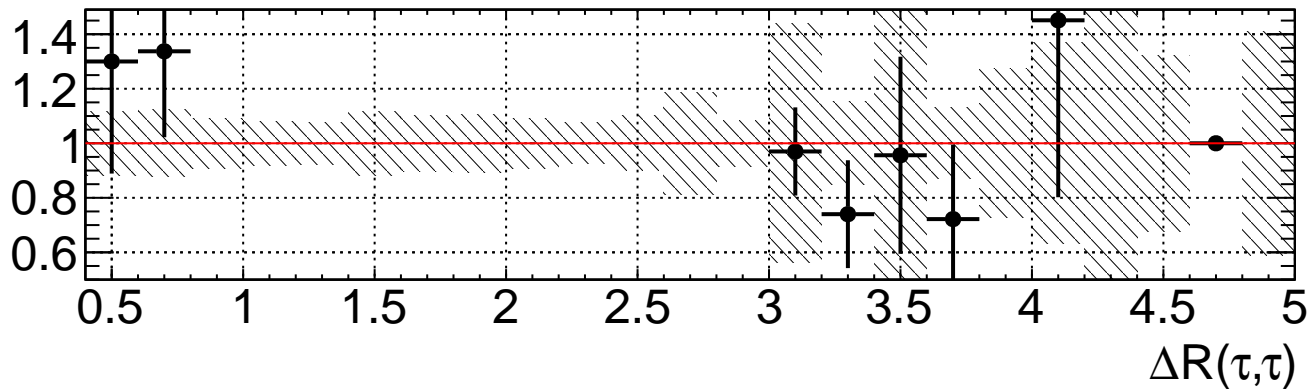
Events / 0.20

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 140\text{fb}^{-1}$
FCNC tqH $H \rightarrow \tau\tau$

$l_{\text{had}}\tau_{\text{had}}$



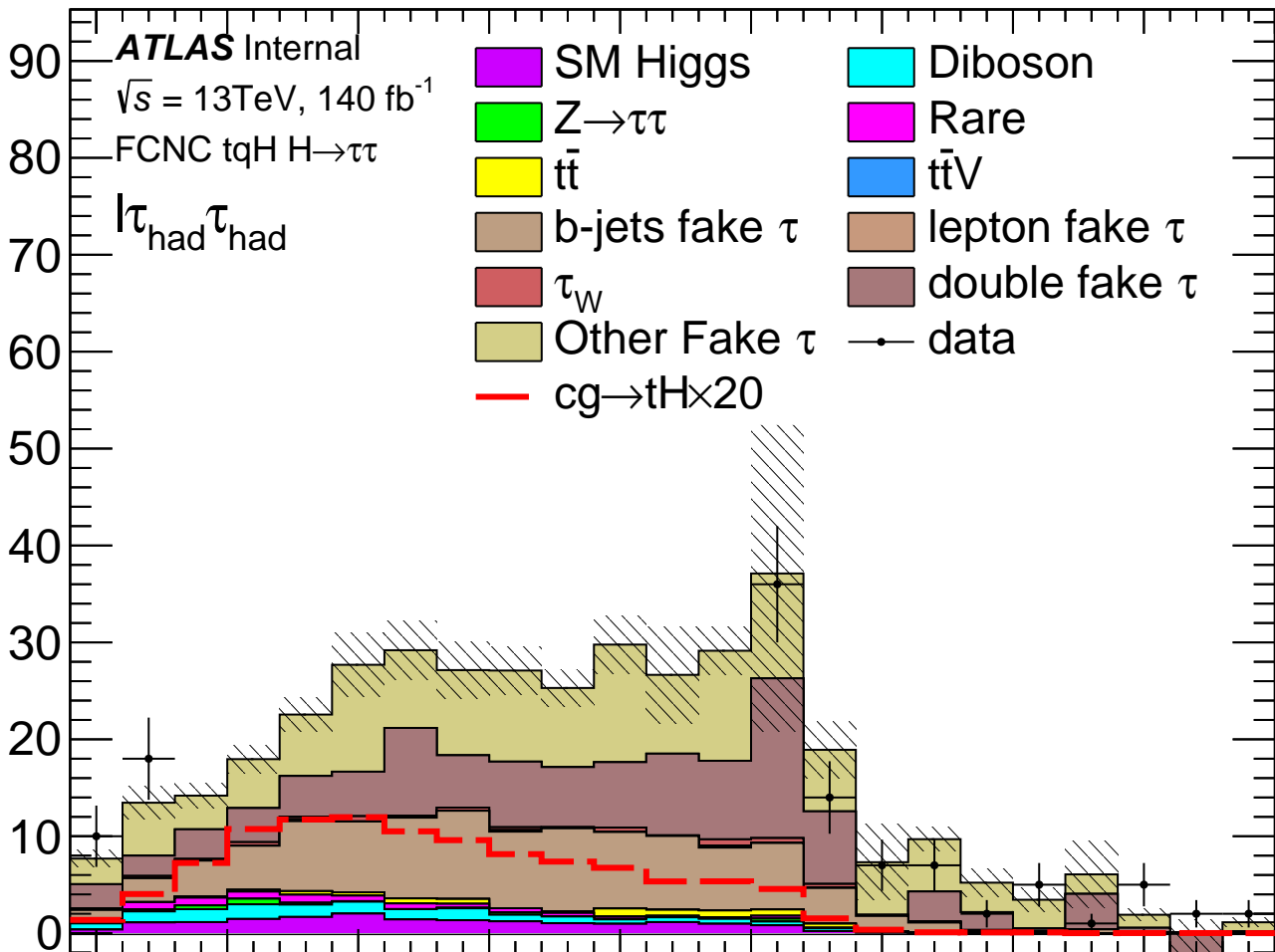
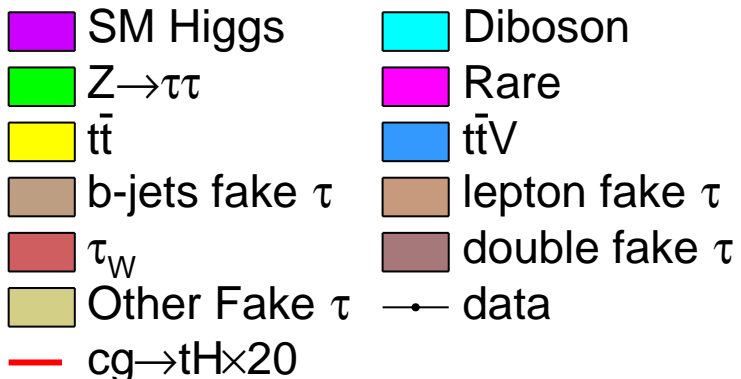
Data/Bkg



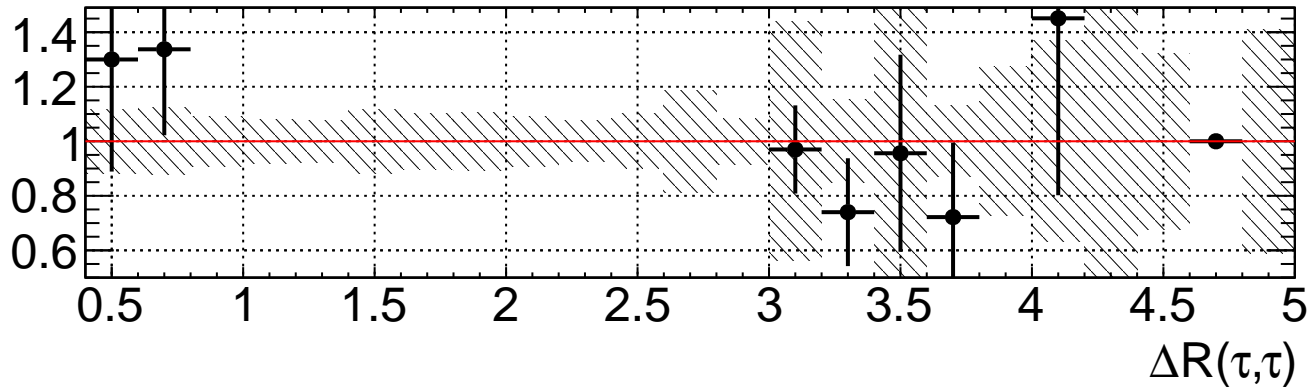
Events / 0.20

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 140\text{fb}^{-1}$
FCNC tqH $H \rightarrow \tau\tau$

$l_{\text{had}}\tau_{\text{had}}$

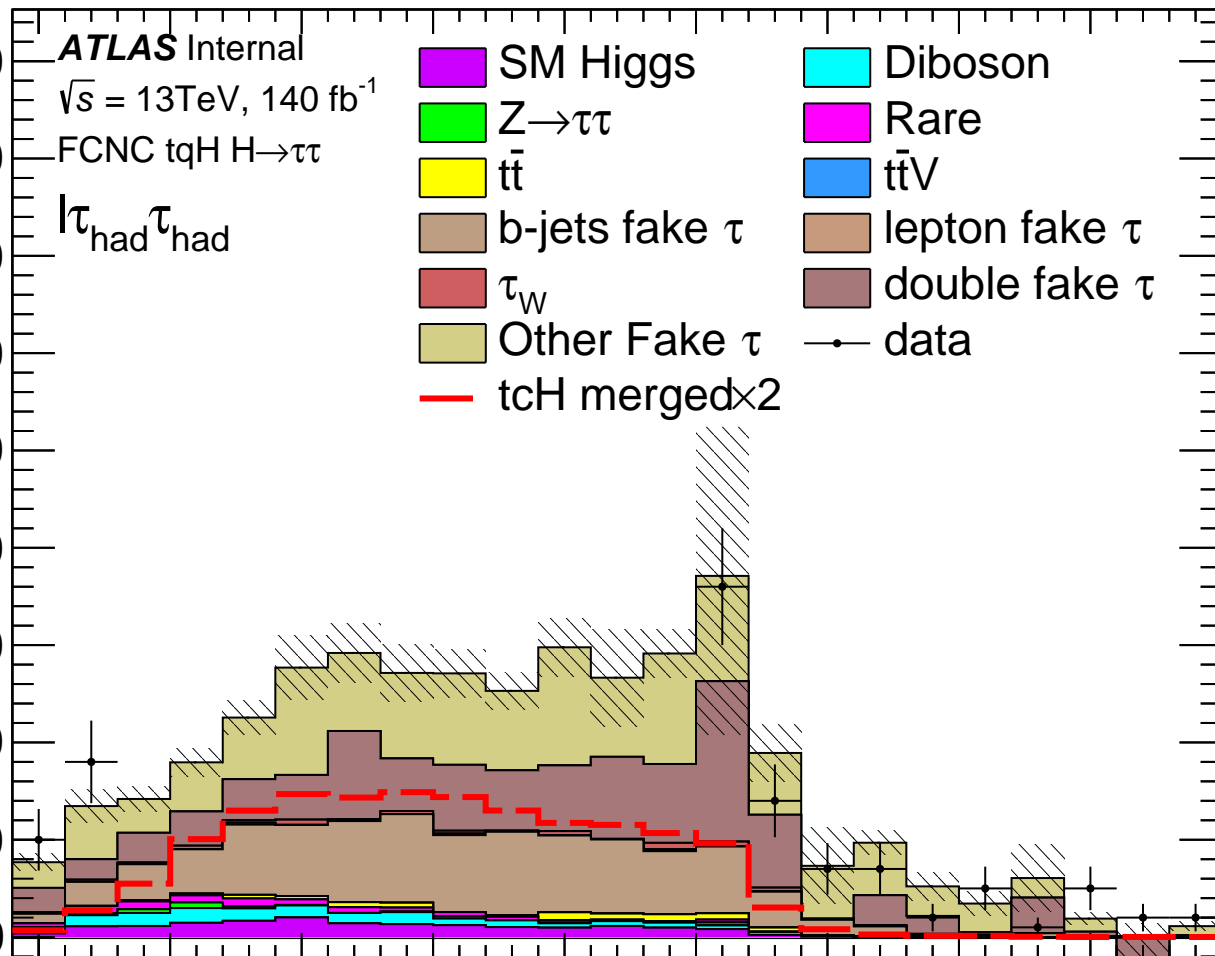
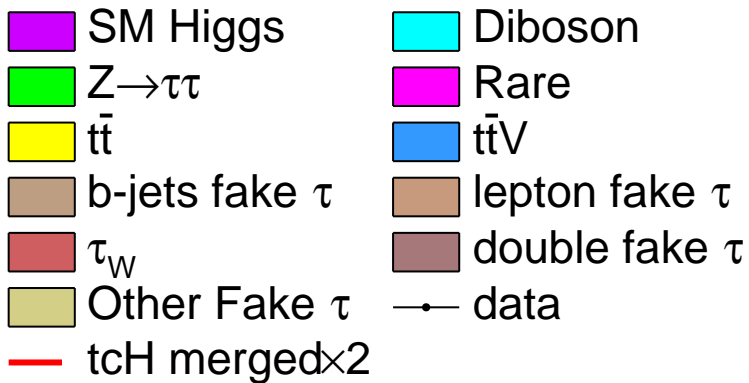


Data/Bkg

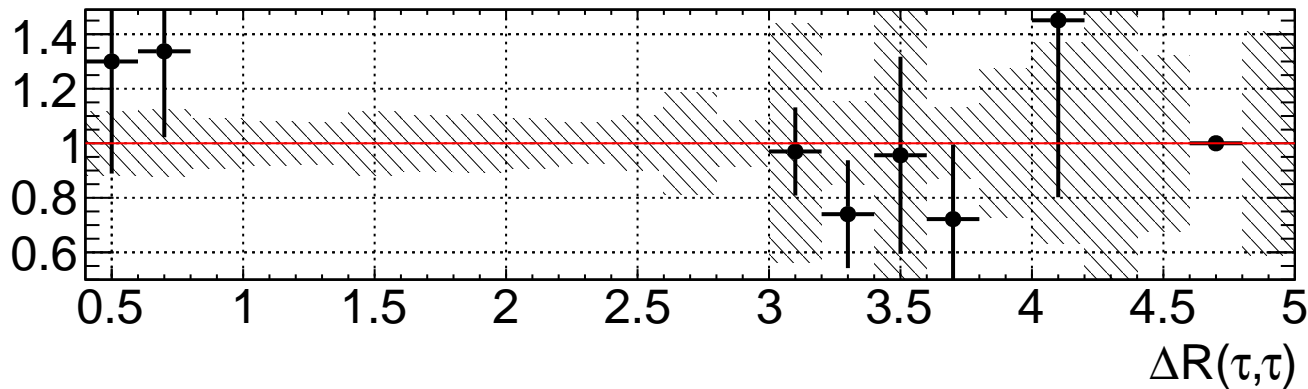


Events / 0.20

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 140\text{fb}^{-1}$
FCNC tqH $H \rightarrow \tau\tau$
 $l_{\text{had}}\tau_{\text{had}}$



Data/Bkg



Events / 0.20

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 140\text{fb}^{-1}$
FCNC tqH $H \rightarrow \tau\tau$

 $l_{\text{had}}\tau_{\text{had}}$

SM Higgs

 $Z \rightarrow \tau\tau$ $t\bar{t}$ b-jets fake τ τ_W Other Fake τ $t\bar{t} \rightarrow bWuH \times 2$

Diboson

Rare

 $t\bar{t}V$ lepton fake τ double fake τ

—•— data

50

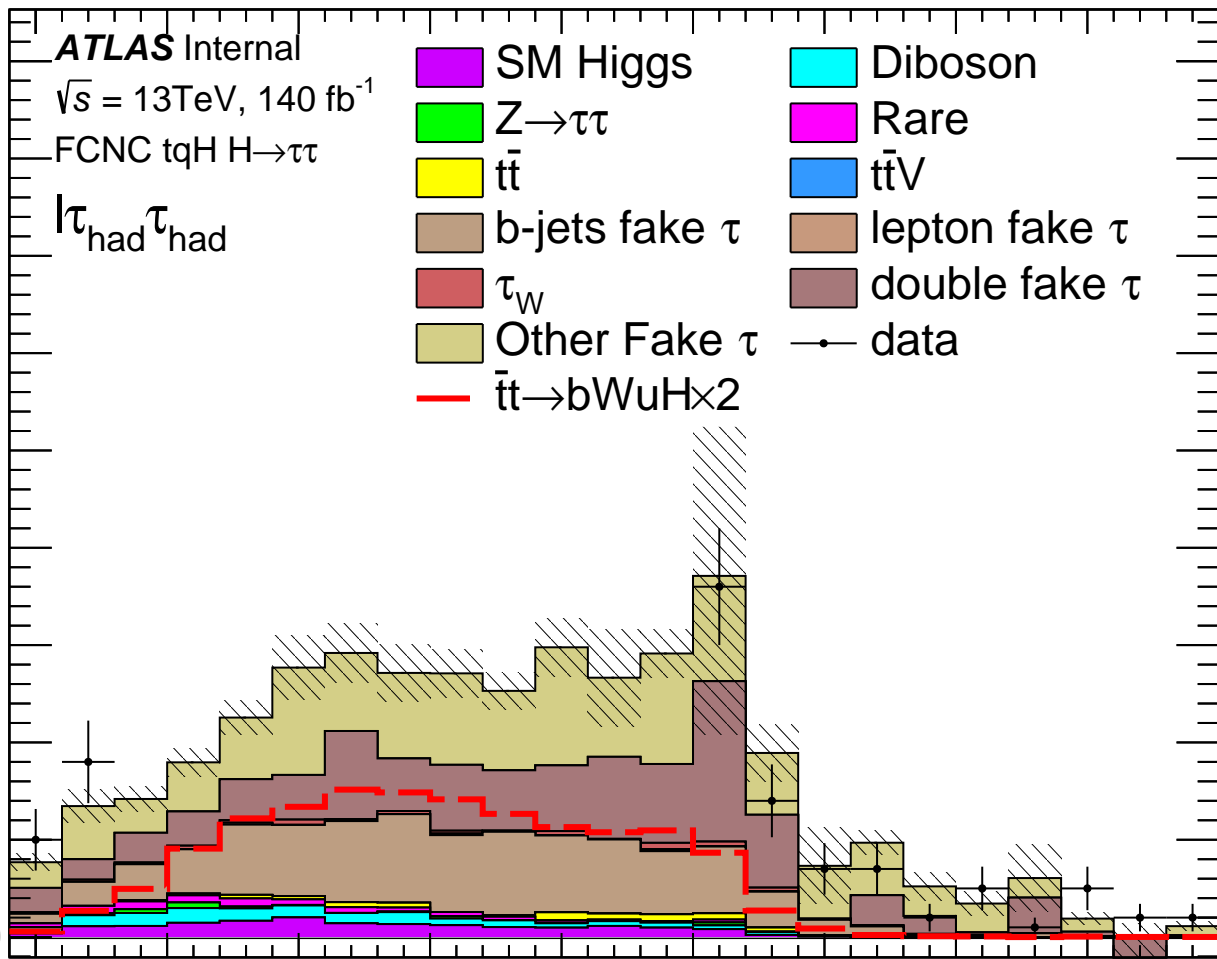
40

30

20

10

0



Data/Bkg

1.4

1.2

1.0

0.8

0.6

0.5

1

1.5

2

2.5

3

3.5

4

4.5

5

 $\Delta R(\tau, \tau)$

Events / 0.20

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 140\text{ fb}^{-1}$
FCNC tqH $H \rightarrow \tau\tau$

 $l_{\text{had}}\tau_{\text{had}}$

SM Higgs

 $Z \rightarrow \tau\tau$ $t\bar{t}$ b-jets fake τ τ_W Other Fake τ $ug \rightarrow tH \times 6$

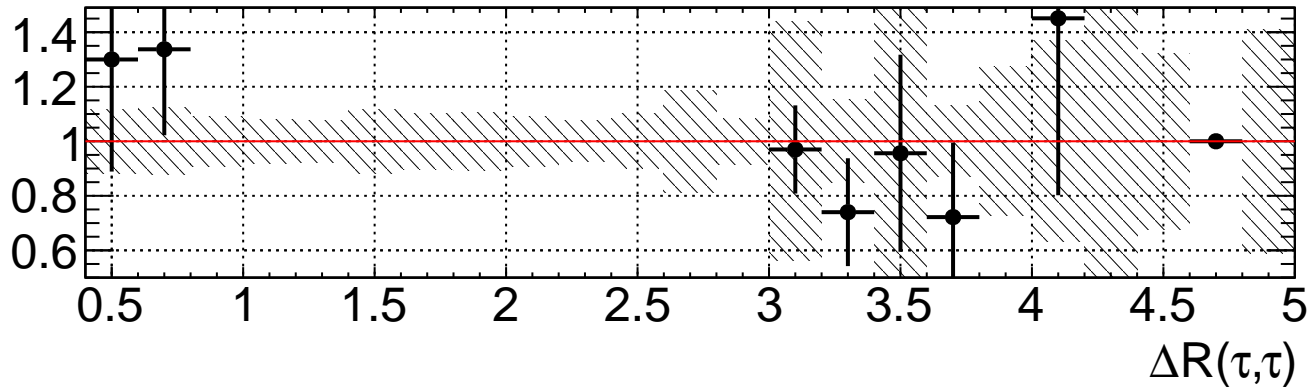
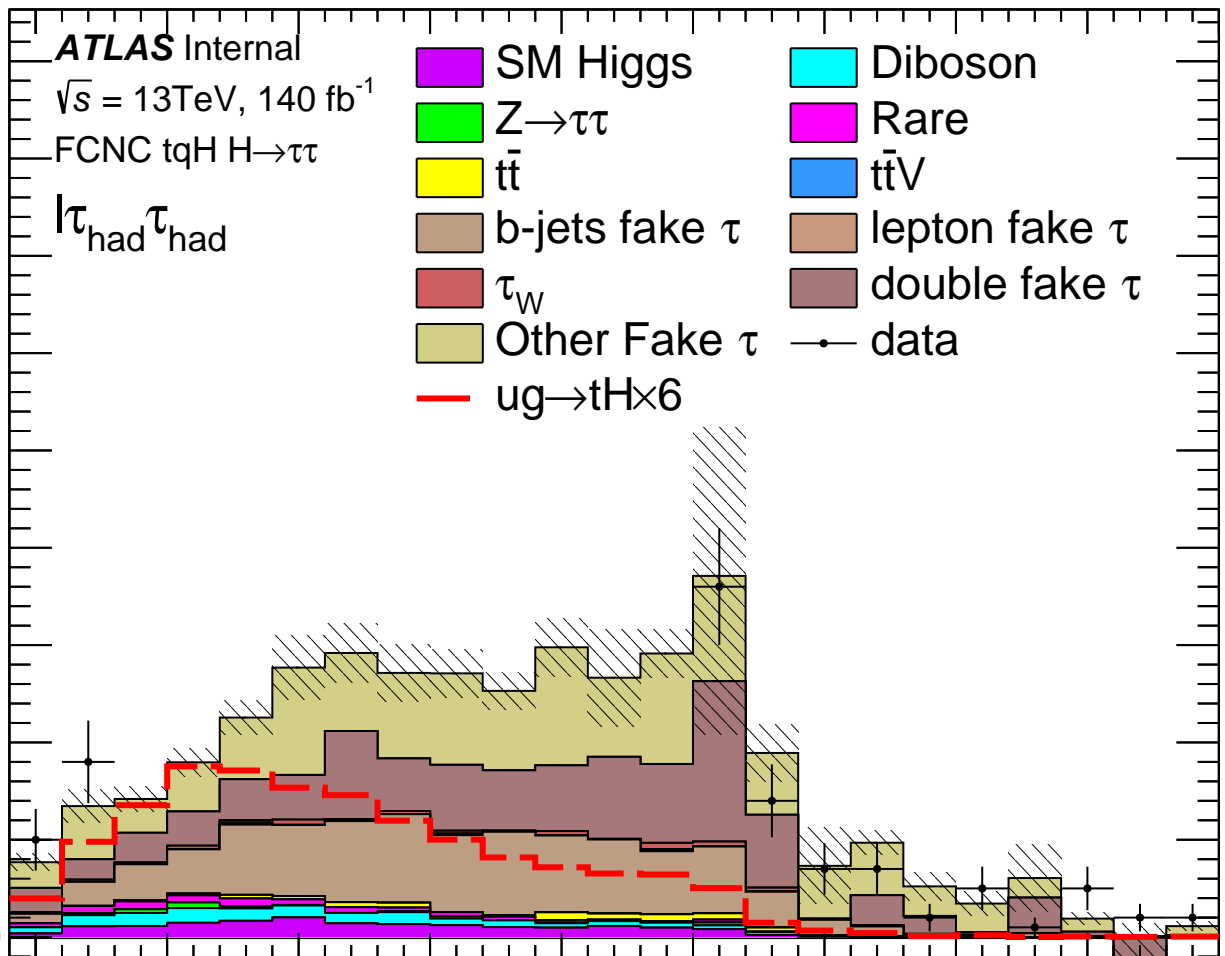
Diboson

Rare

 $t\bar{t}V$ lepton fake τ double fake τ

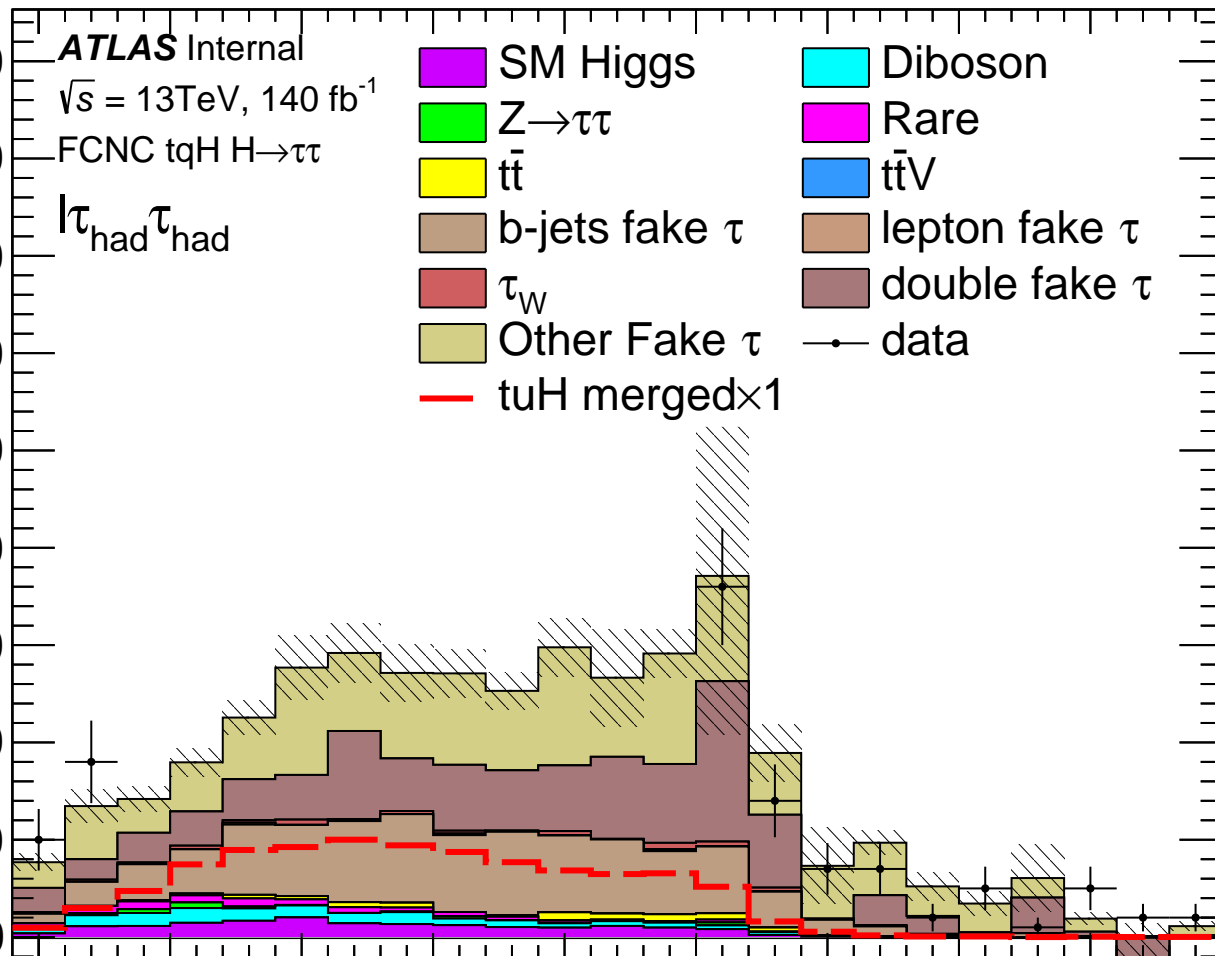
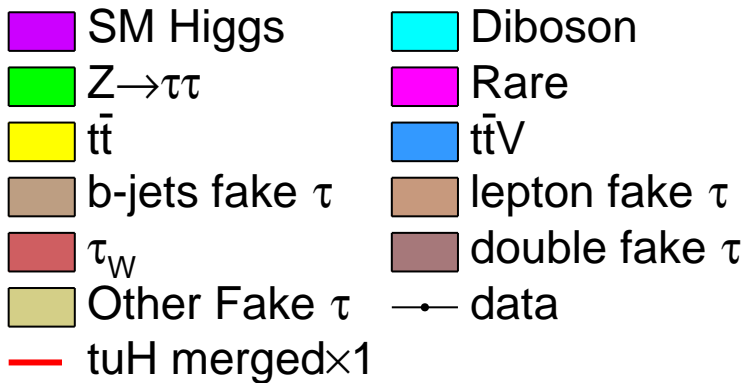
—•— data

Data/Bkg

 $\Delta R(\tau, \tau)$ 

Events / 0.20

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 140\text{ fb}^{-1}$
FCNC tqH $H \rightarrow \tau\tau$
 $l_{\text{had}} \tau_{\text{had}}$



Data/Bkg

