

Events / 0.20

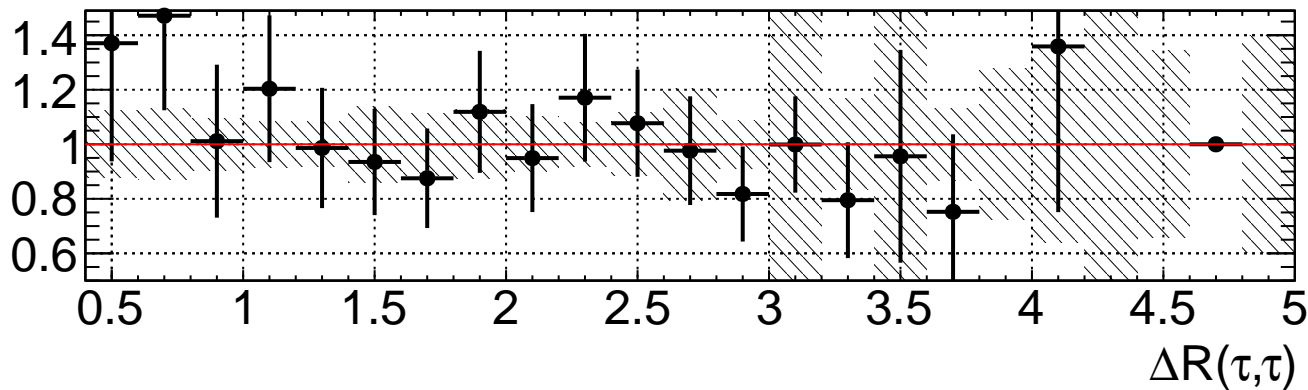
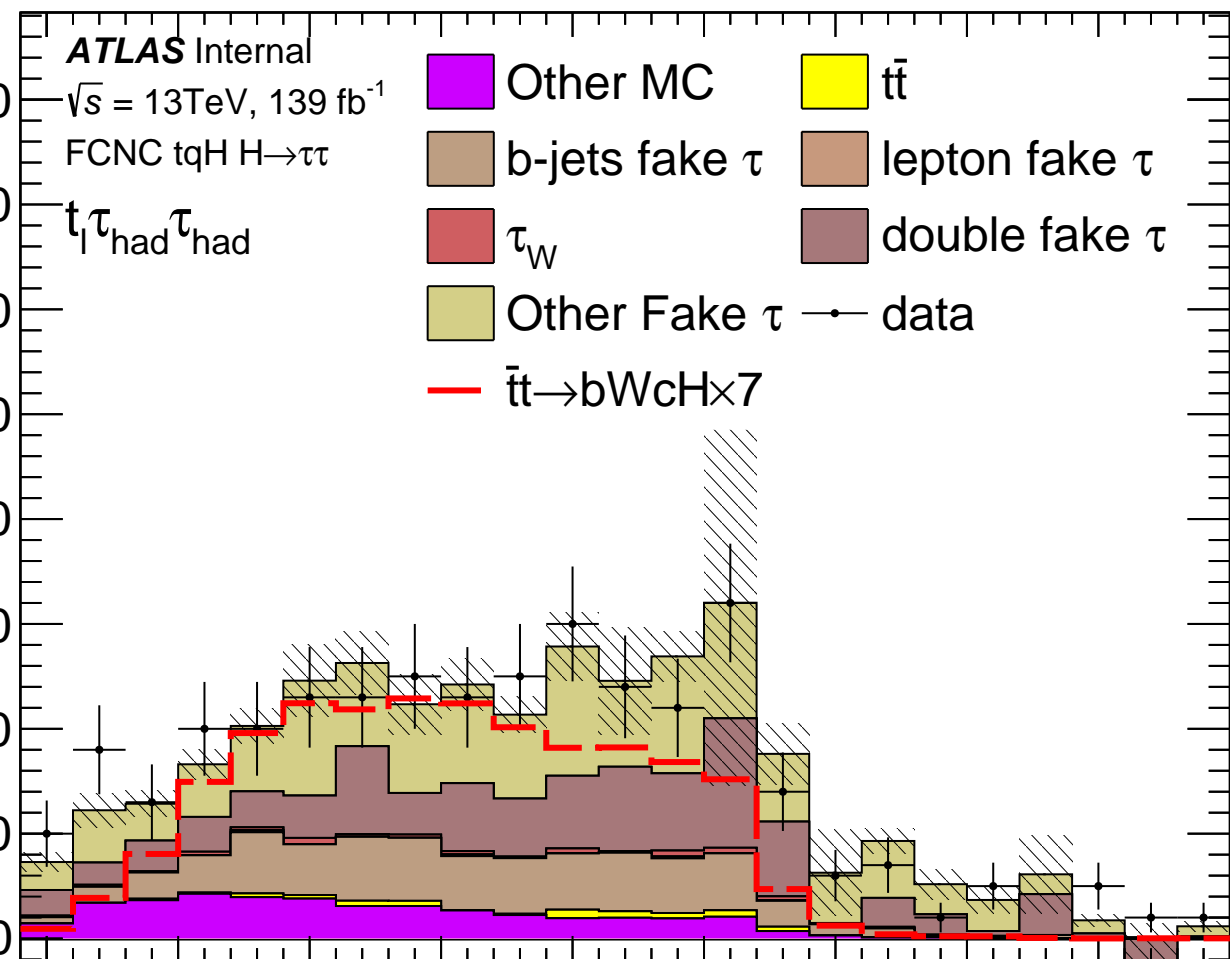
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC tqH  $H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$  $\bar{t}t \rightarrow bWcH \times 7$  $\bar{t}t$ lepton fake  $\tau$ double fake  $\tau$ 

—•— data

Data/Bkg



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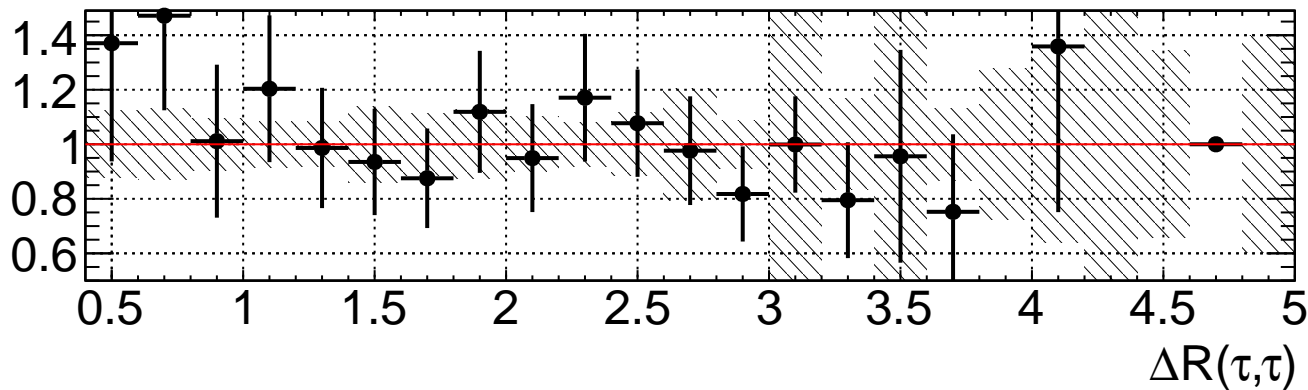
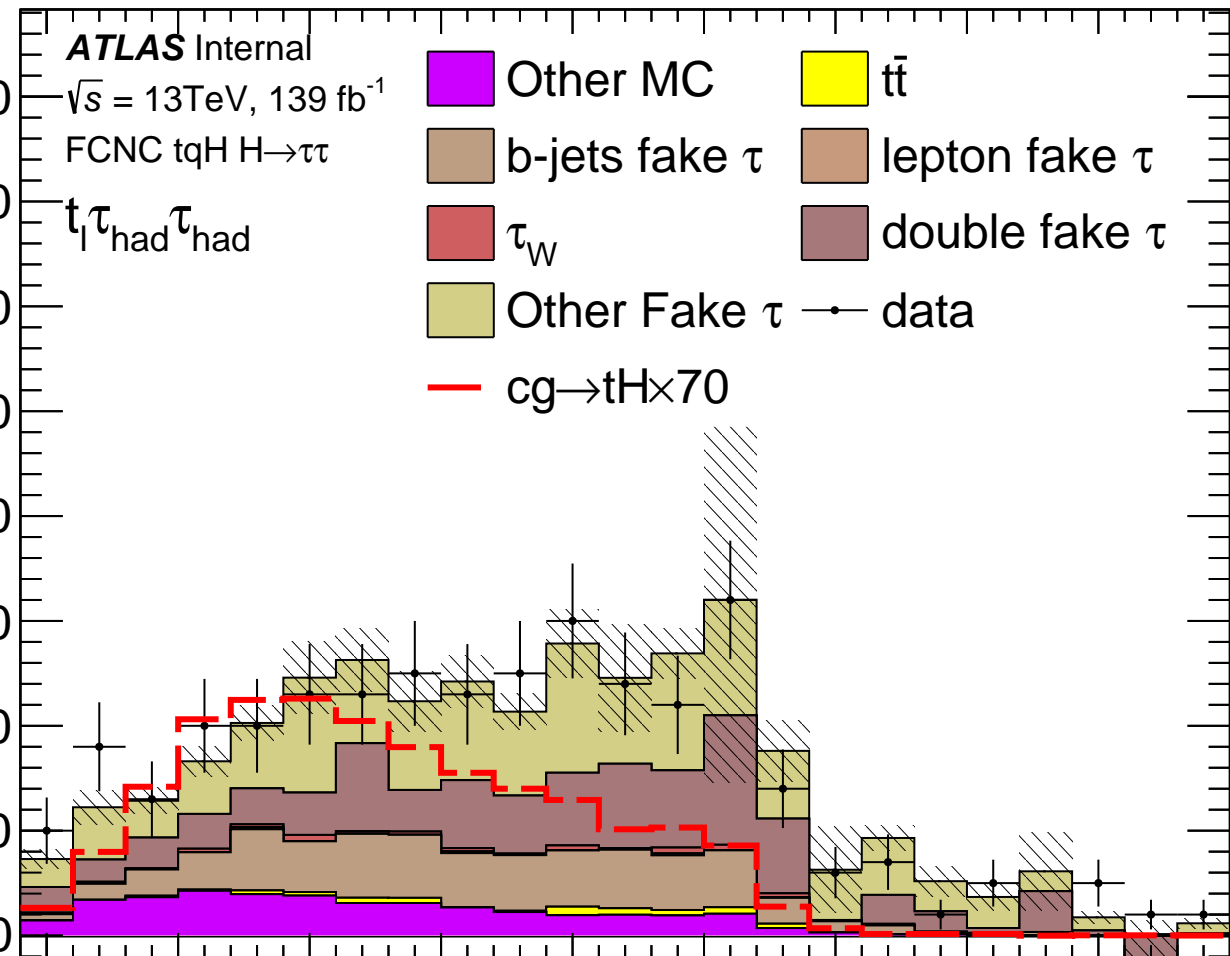
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC  $t\bar{q}H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$ —  $cg \rightarrow tH \times 70$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

—•— data

Data/Bkg



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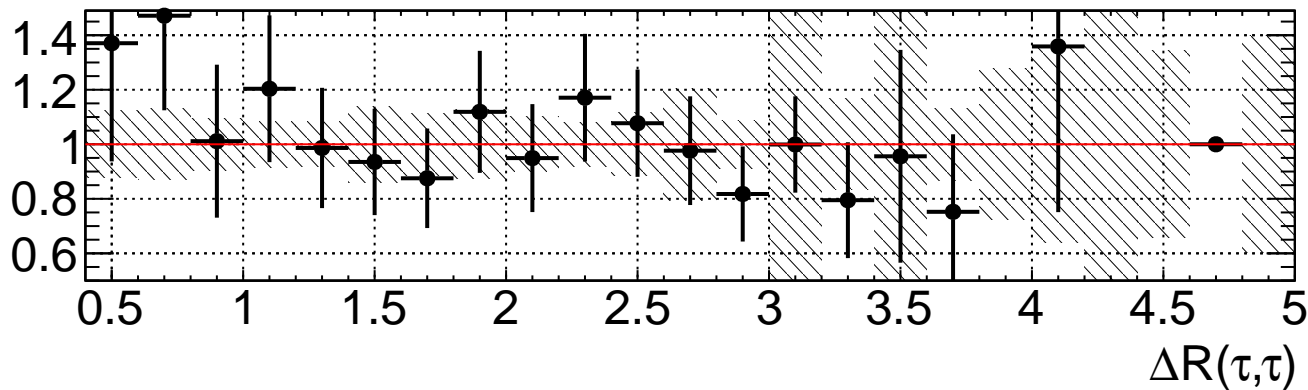
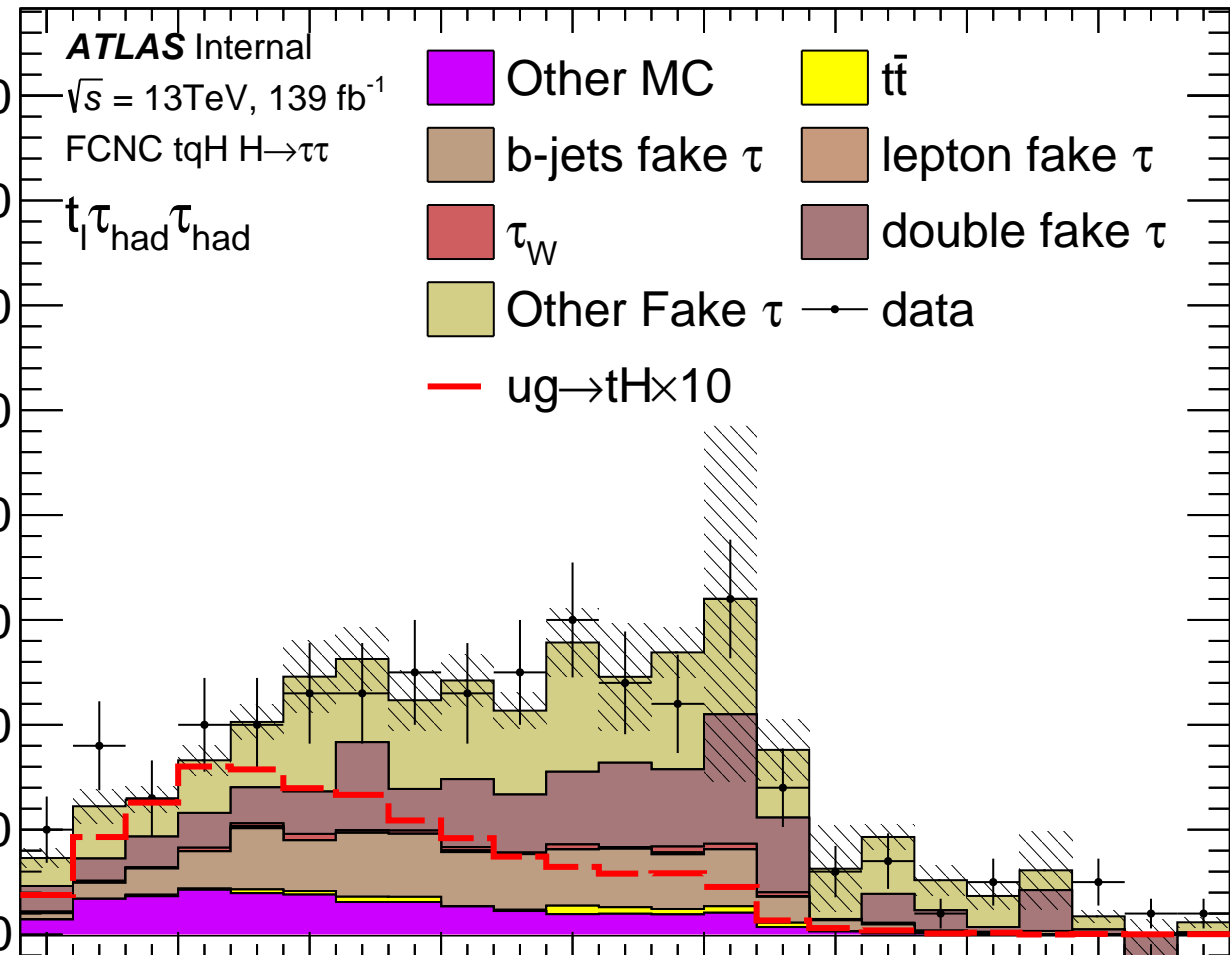
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC  $t\bar{q}H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$ —  $u\bar{g} \rightarrow tH \times 10$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

—•— data

Data/Bkg



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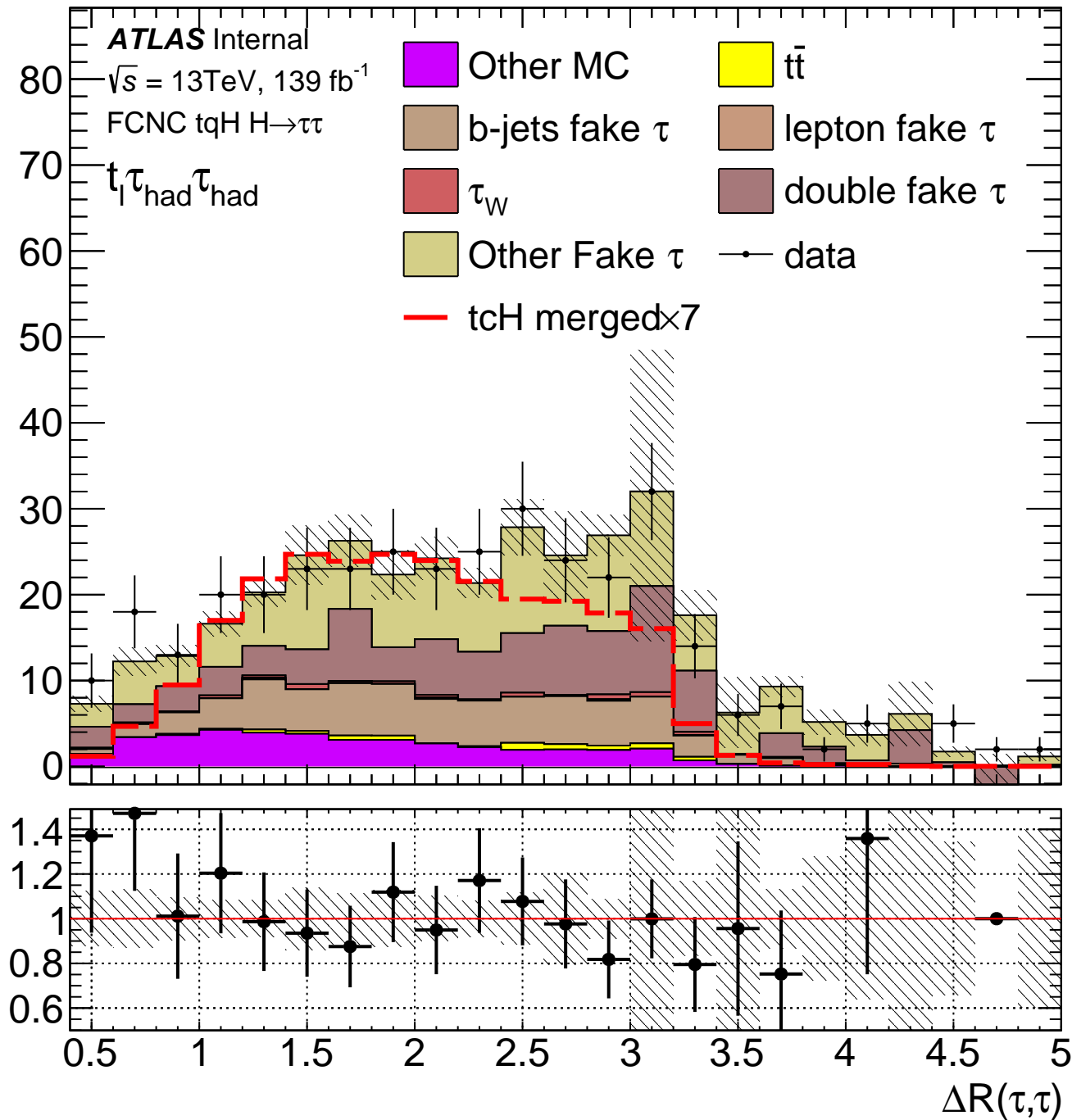
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC tqH  $H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$ tcH merged $\times 7$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

data

Data/Bkg



Events / 0.20

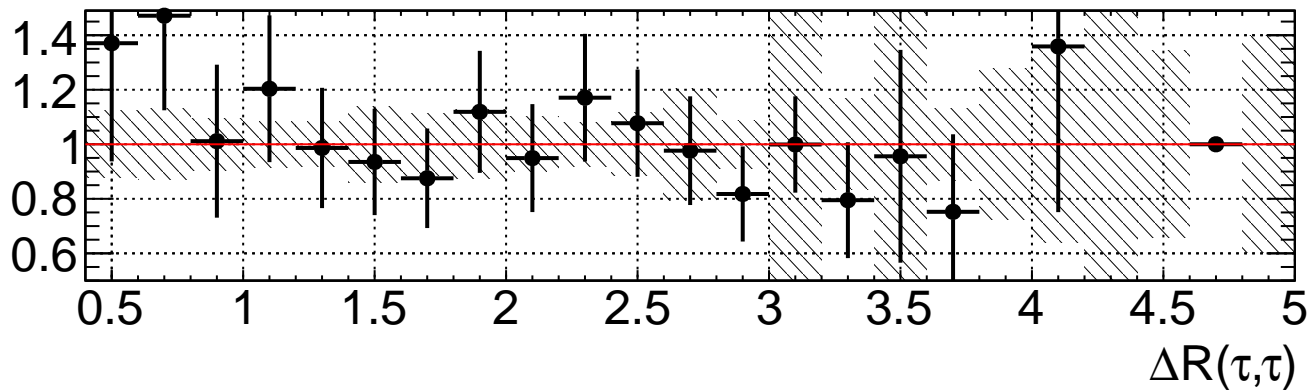
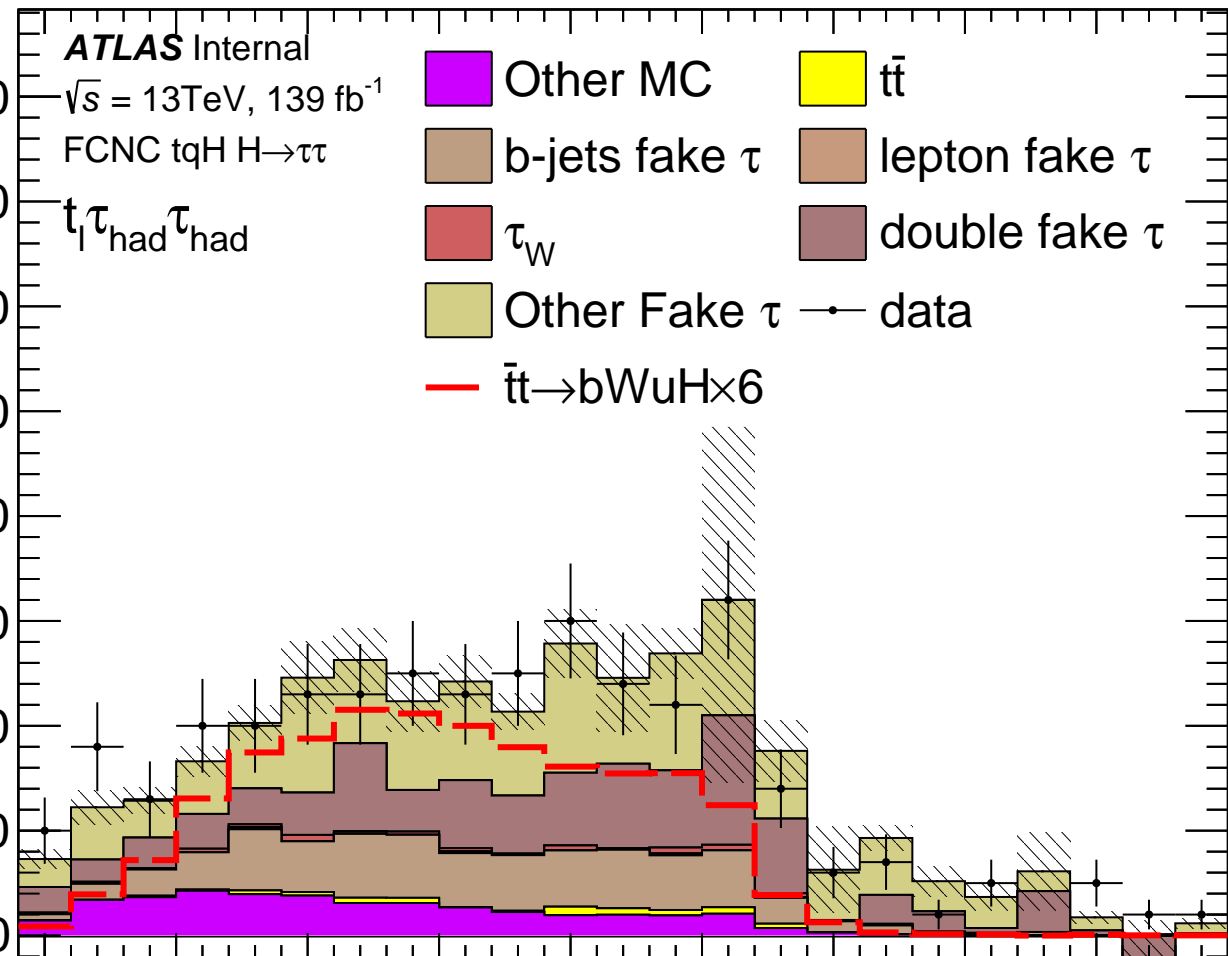
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{fb}^{-1}$ FCNC  $t\bar{q}H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$  $\bar{t}t \rightarrow bWuH \times 6$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

—•— data

Data/Bkg



Events / 0.20

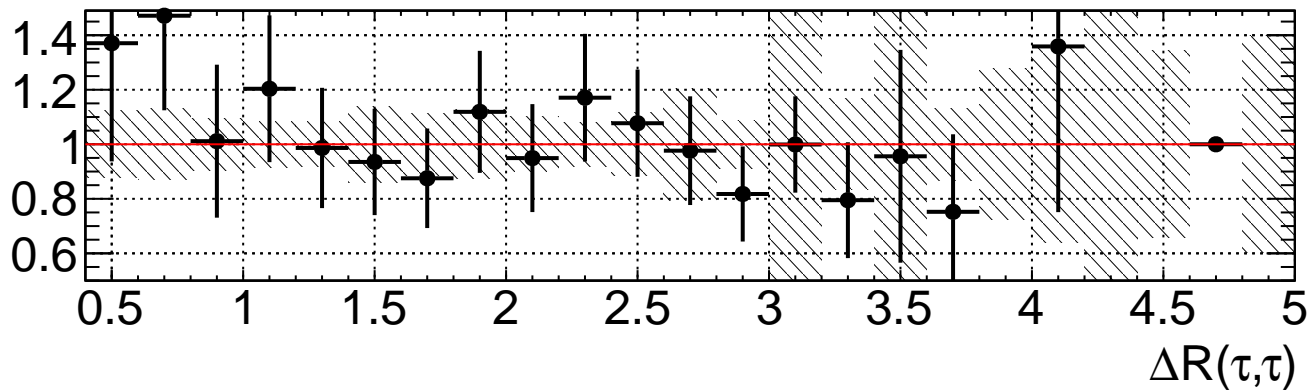
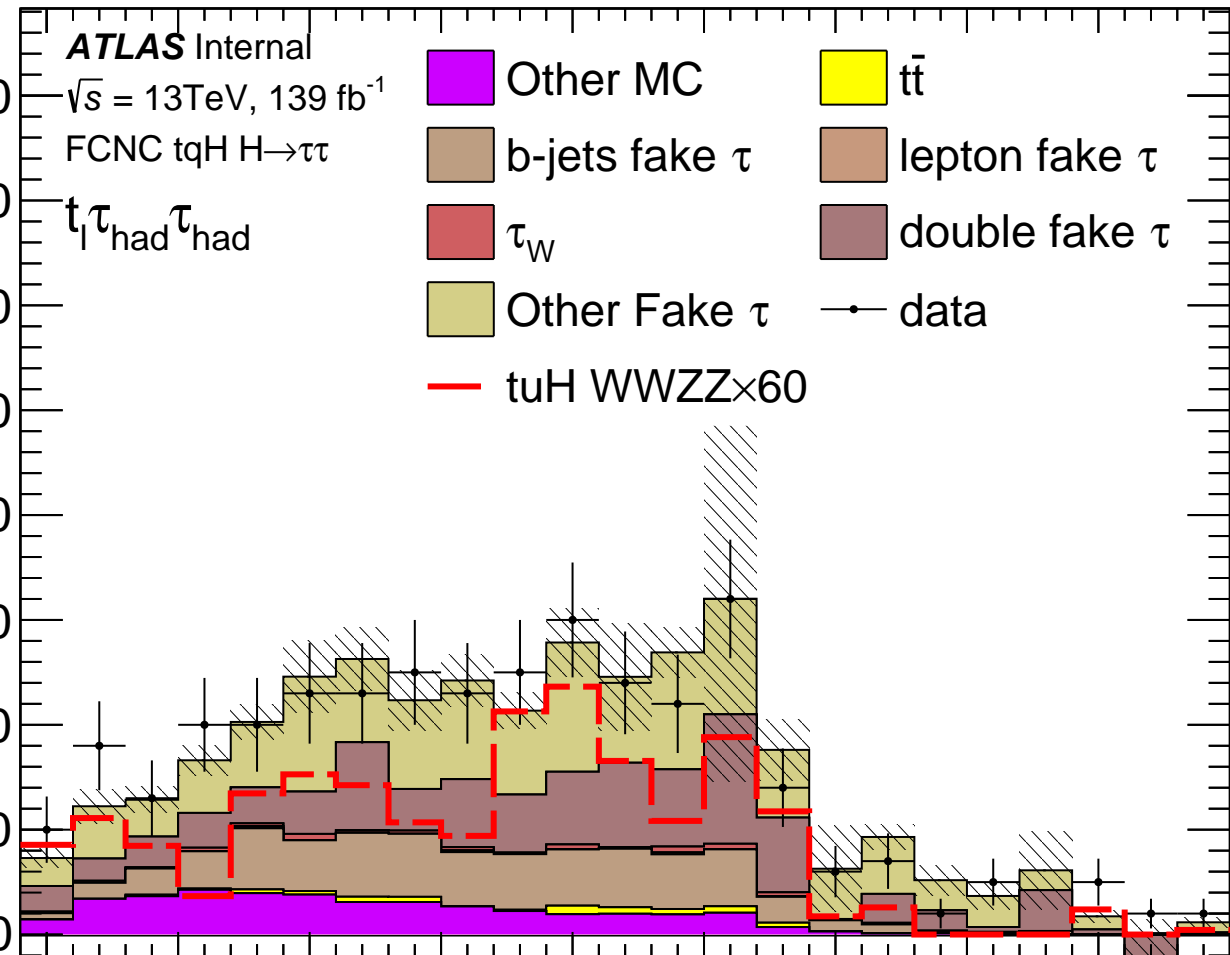
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC  $t\bar{q}H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$ —  $t\bar{u}H \text{ WWZZ} \times 60$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

—•— data

Data/Bkg



Events / 0.20

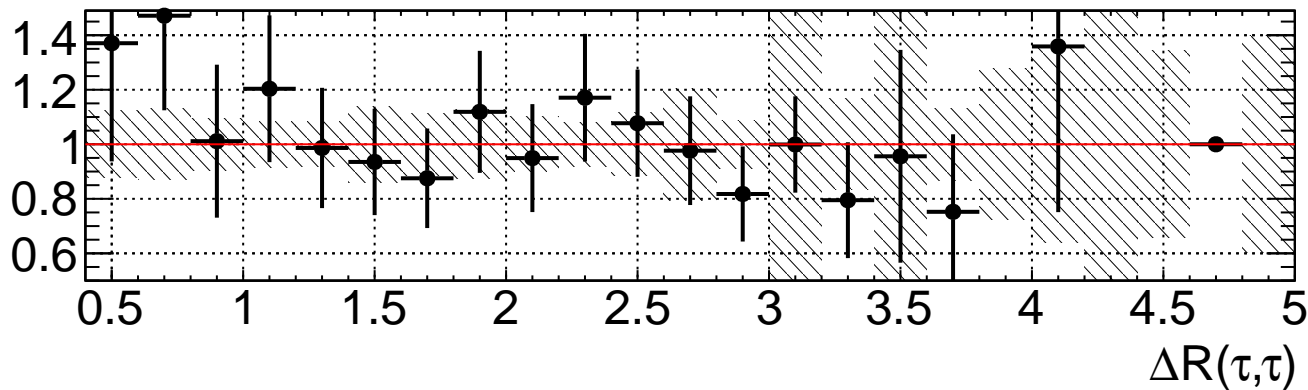
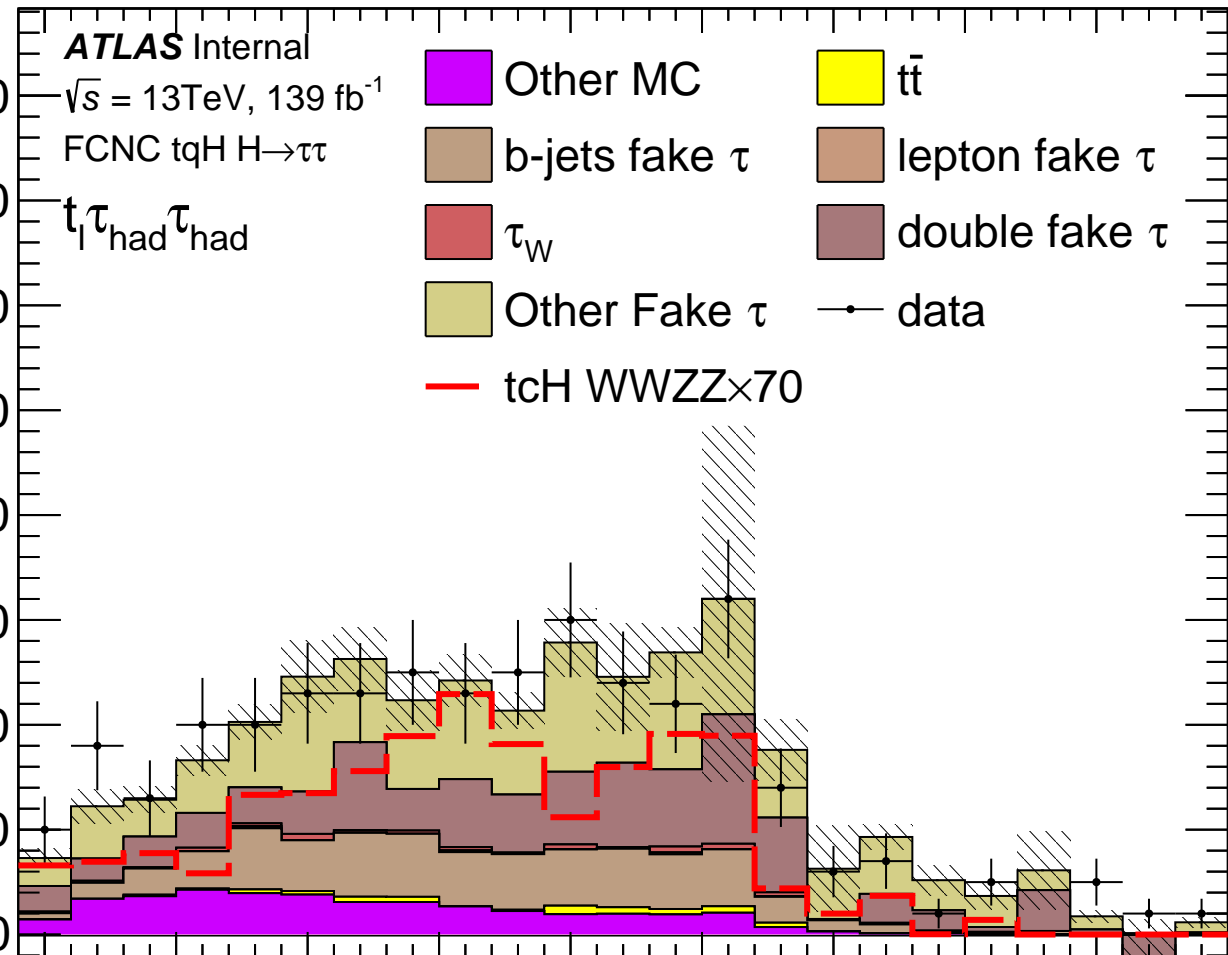
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC  $t\bar{q}H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$ tcH WWZZ $\times 70$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

data

Data/Bkg



Events / 0.20

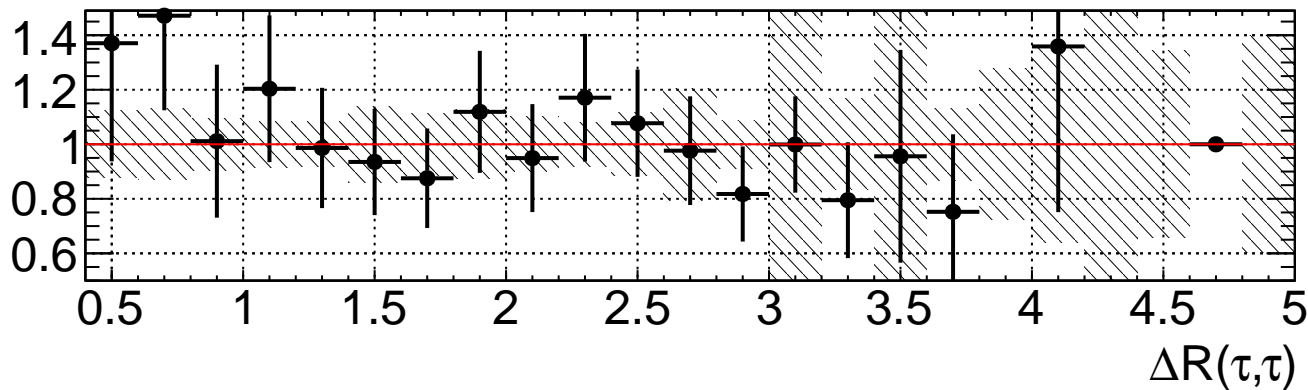
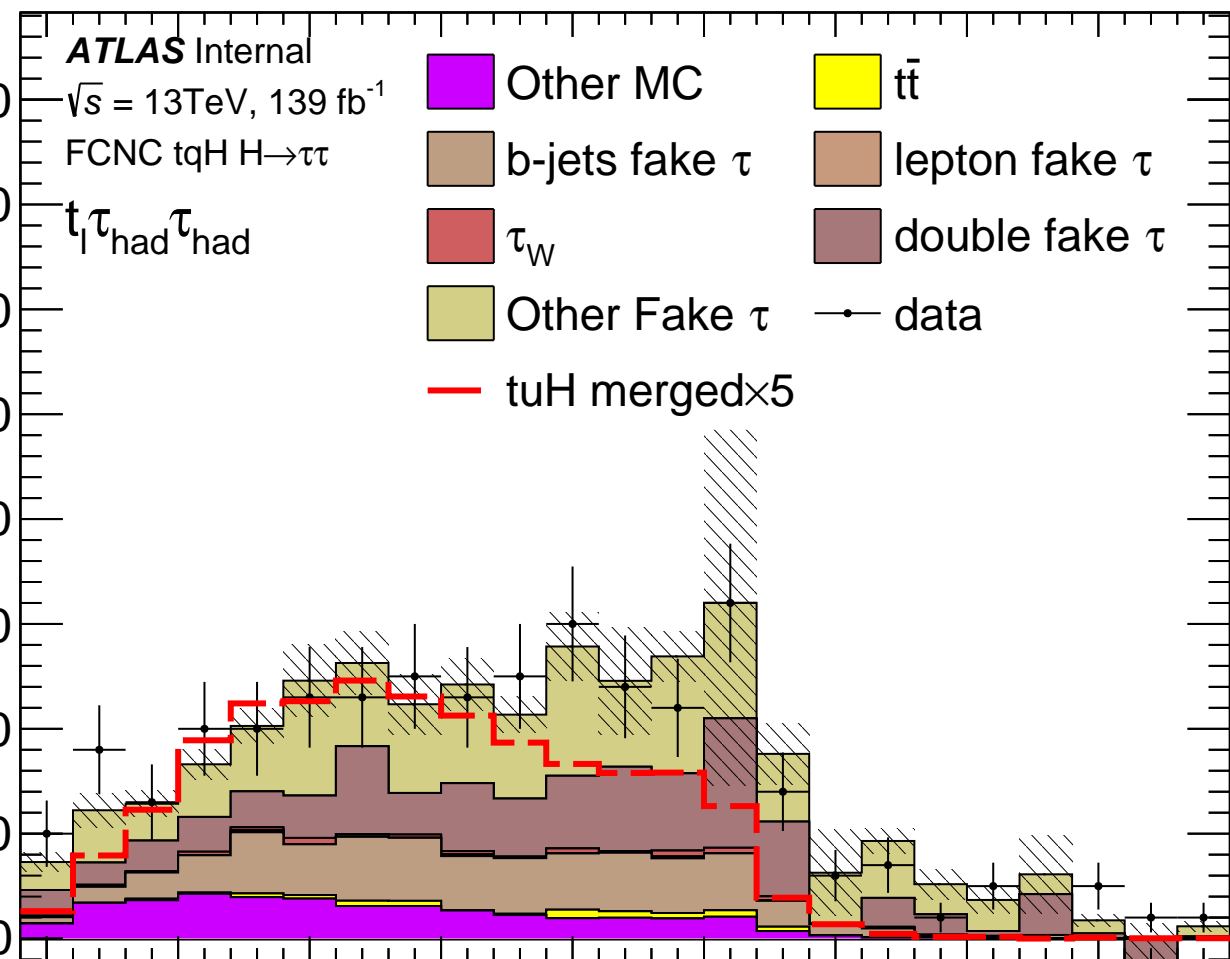
**ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$ FCNC  $t\bar{q}H \rightarrow \tau\tau$  $t_l \tau_{\text{had}} \tau_{\text{had}}$ 

Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$ —  $t\bar{u}H$  merged $\times 5$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

—•— data

Data/Bkg





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**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  $\tau$  $\tau_W$ Other Fake  $\tau$  $\bar{t}t \rightarrow bWcH \times 7$  $ug \rightarrow tH \times 10$  $tuH WWZZ \times 60$  $t\bar{t}$ lepton fake  $\tau$ double fake  $\tau$ 

—•— data

 $cg \rightarrow tH \times 70$  $\bar{t}t \rightarrow bWuH \times 6$  $tcH WWZZ \times 70$ 

Data/Bkg

