

Events / 0.20

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$
FCNC $t\bar{q}H \rightarrow \tau\tau$
 $t_h \tau_{\text{lep}} \tau_{\text{had}} - 2j$

Other MC

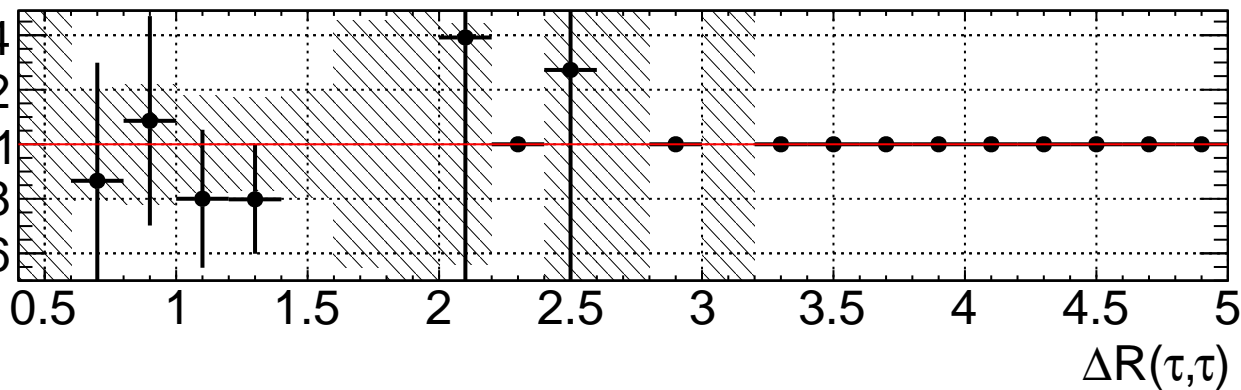
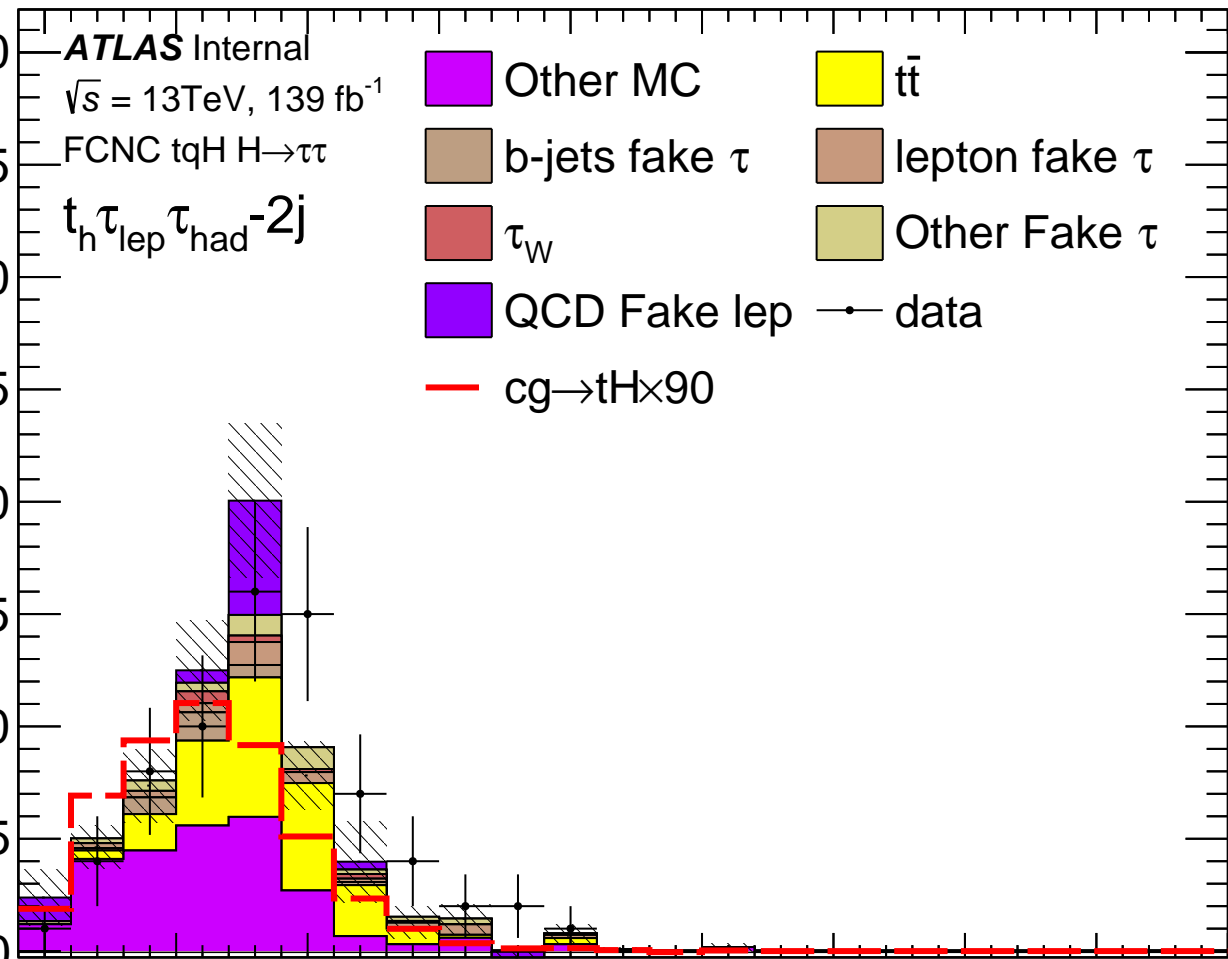
b-jets fake τ τ_W

QCD Fake lep

 $c\bar{g} \rightarrow t\bar{H} \times 90$ $t\bar{t}$ lepton fake τ Other Fake τ

data

Data/Bkg



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FCNC $t\bar{q}H \rightarrow \tau\tau$
 $t_h \tau_{\text{lep}} \tau_{\text{had}} - 2j$

Other MC

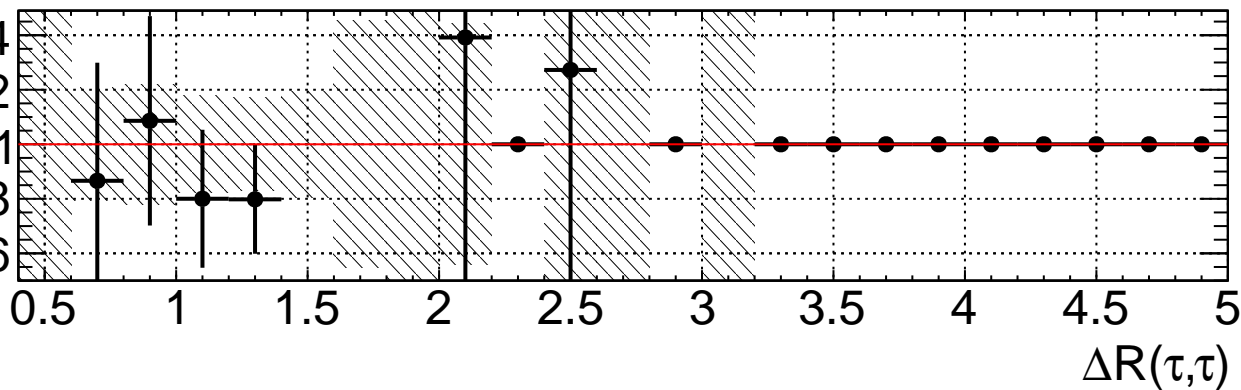
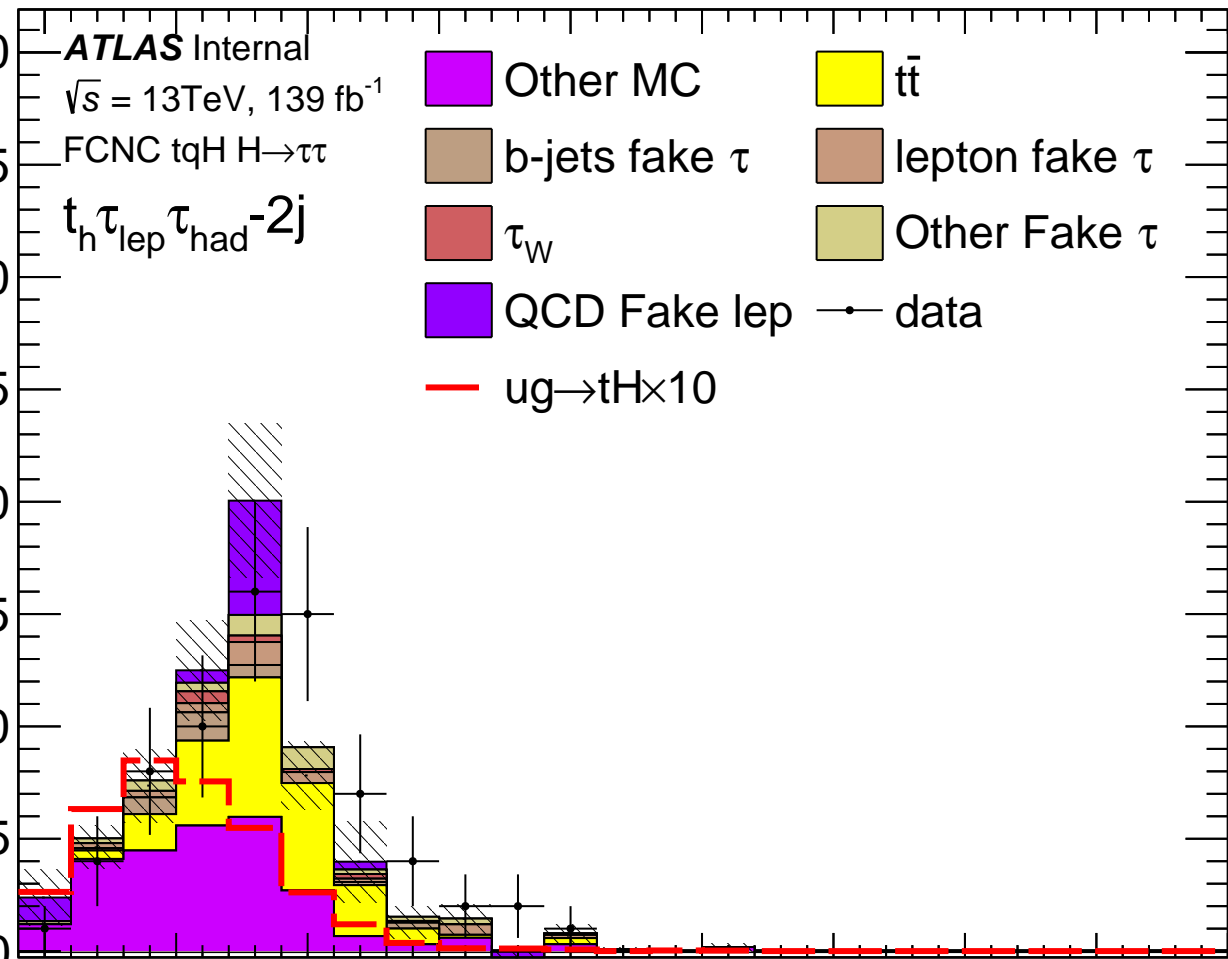
b-jets fake τ τ_W

QCD Fake lep

 $u\bar{g} \rightarrow t\bar{H} \times 10$ $t\bar{t}$ lepton fake τ Other Fake τ

data

Data/Bkg



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FCNC $t\bar{q}H \rightarrow \tau\tau$
 $t_h \tau_{\text{lep}} \tau_{\text{had}} - 2j$

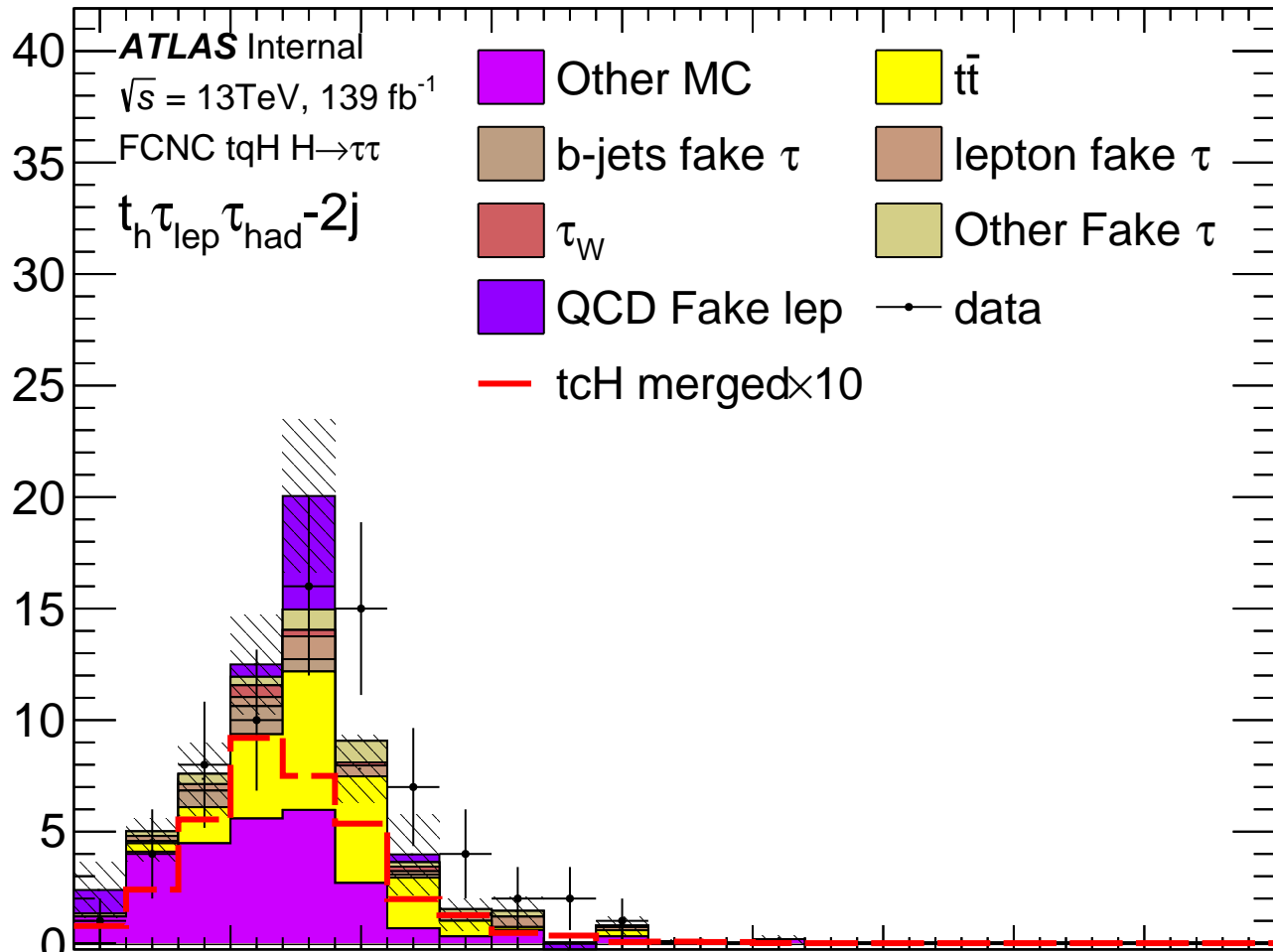
Other MC

b-jets fake τ τ_W

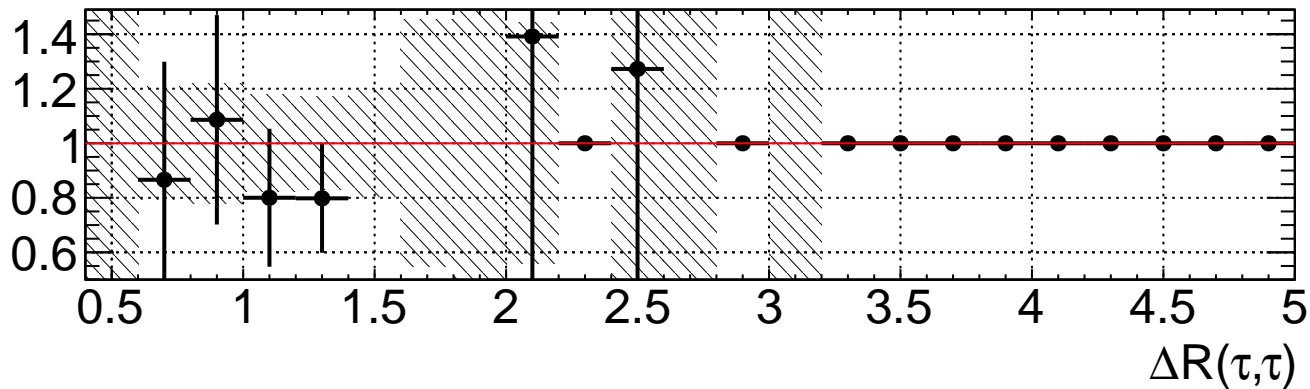
QCD Fake lep

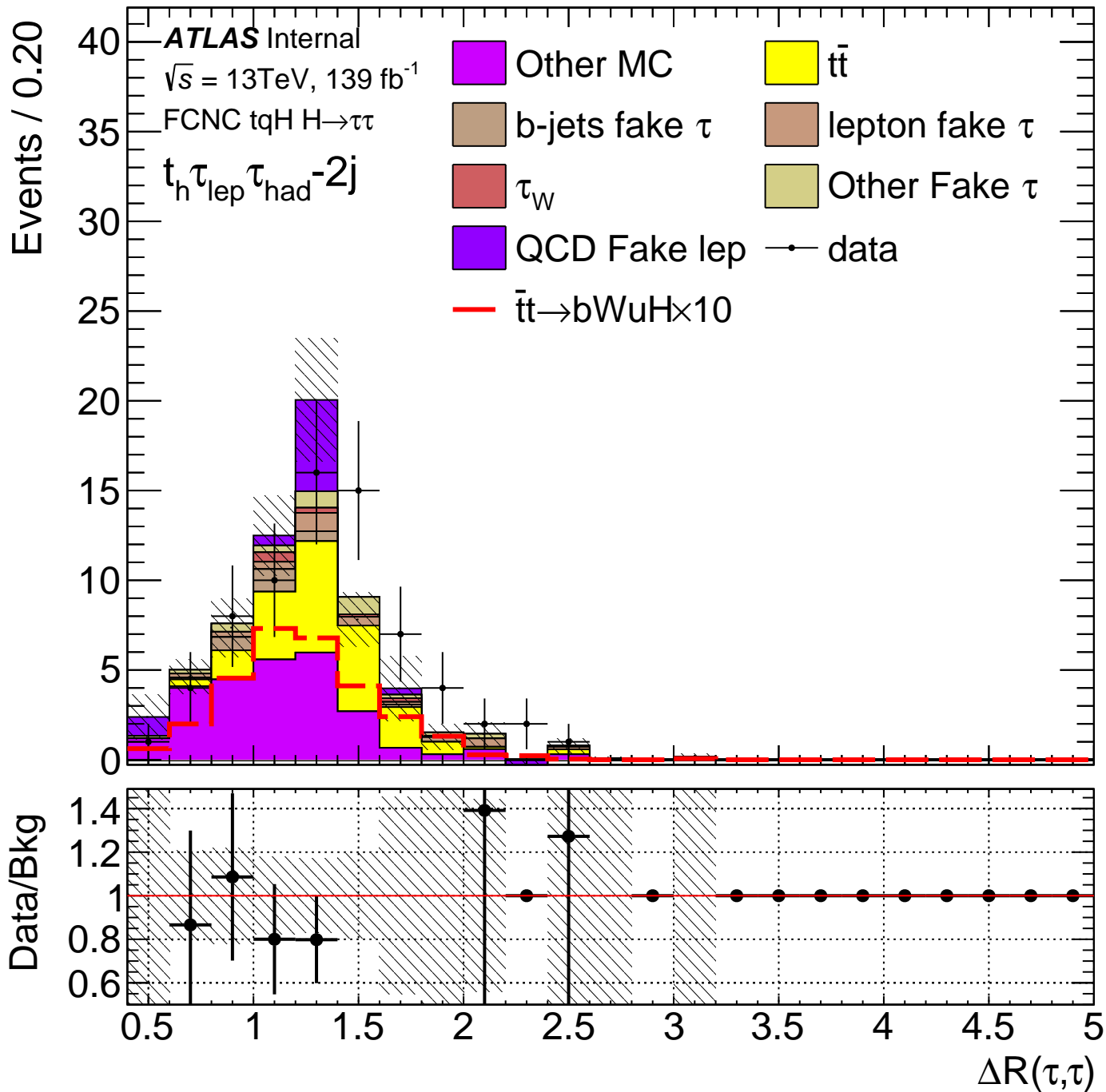
tcH merged $\times 10$ $t\bar{t}$ lepton fake τ Other Fake τ

data



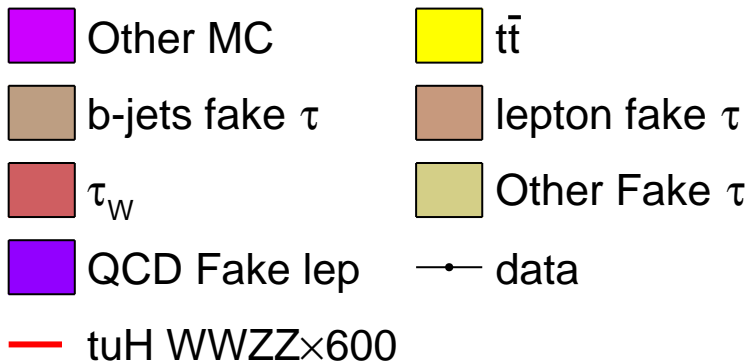
Data/Bkg



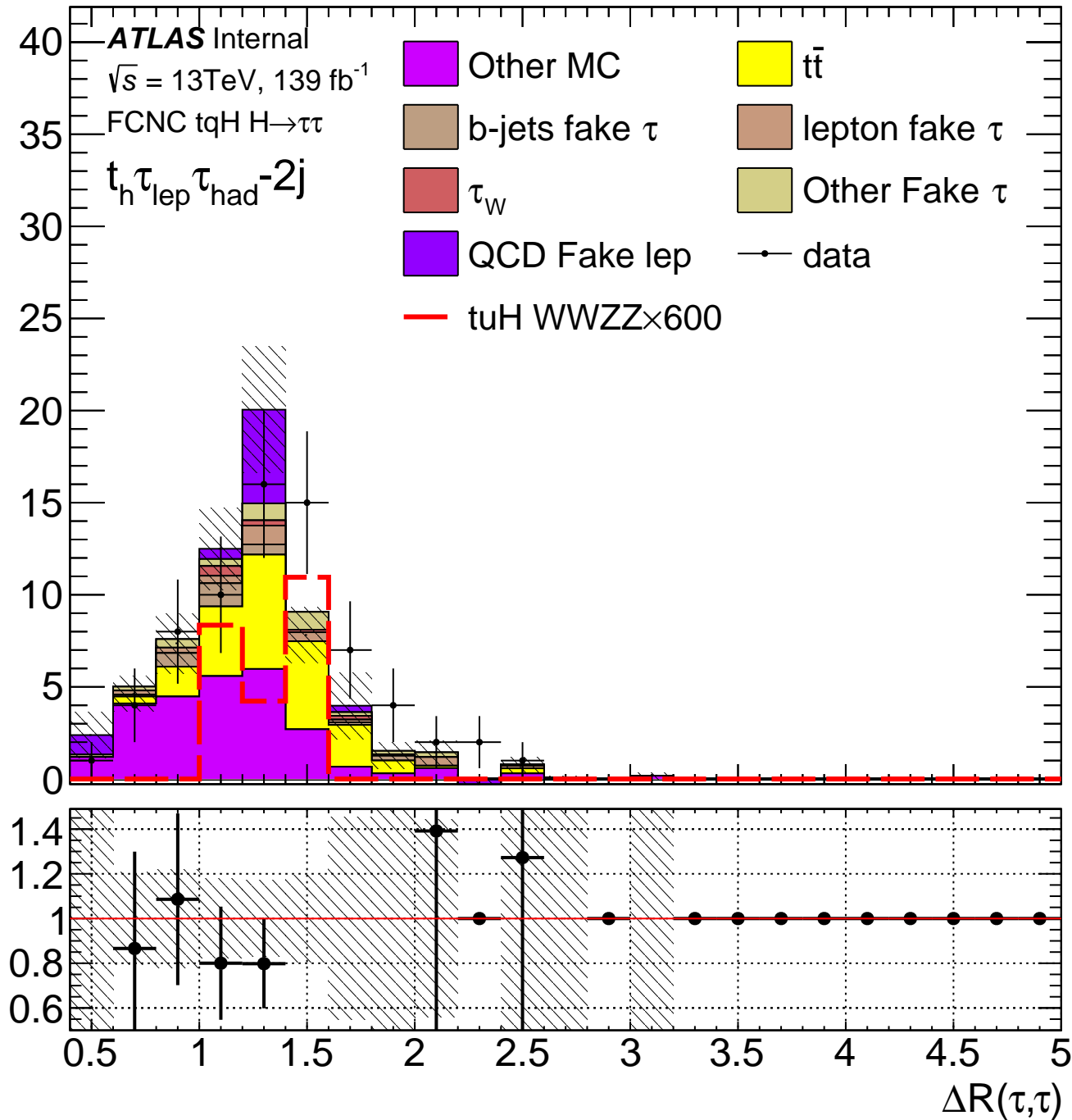


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ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$
FCNC $t\bar{q}H \rightarrow \tau\tau$
 $t_h \tau_{\text{lep}} \tau_{\text{had}} - 2j$



Data/Bkg



Events / 0.20

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

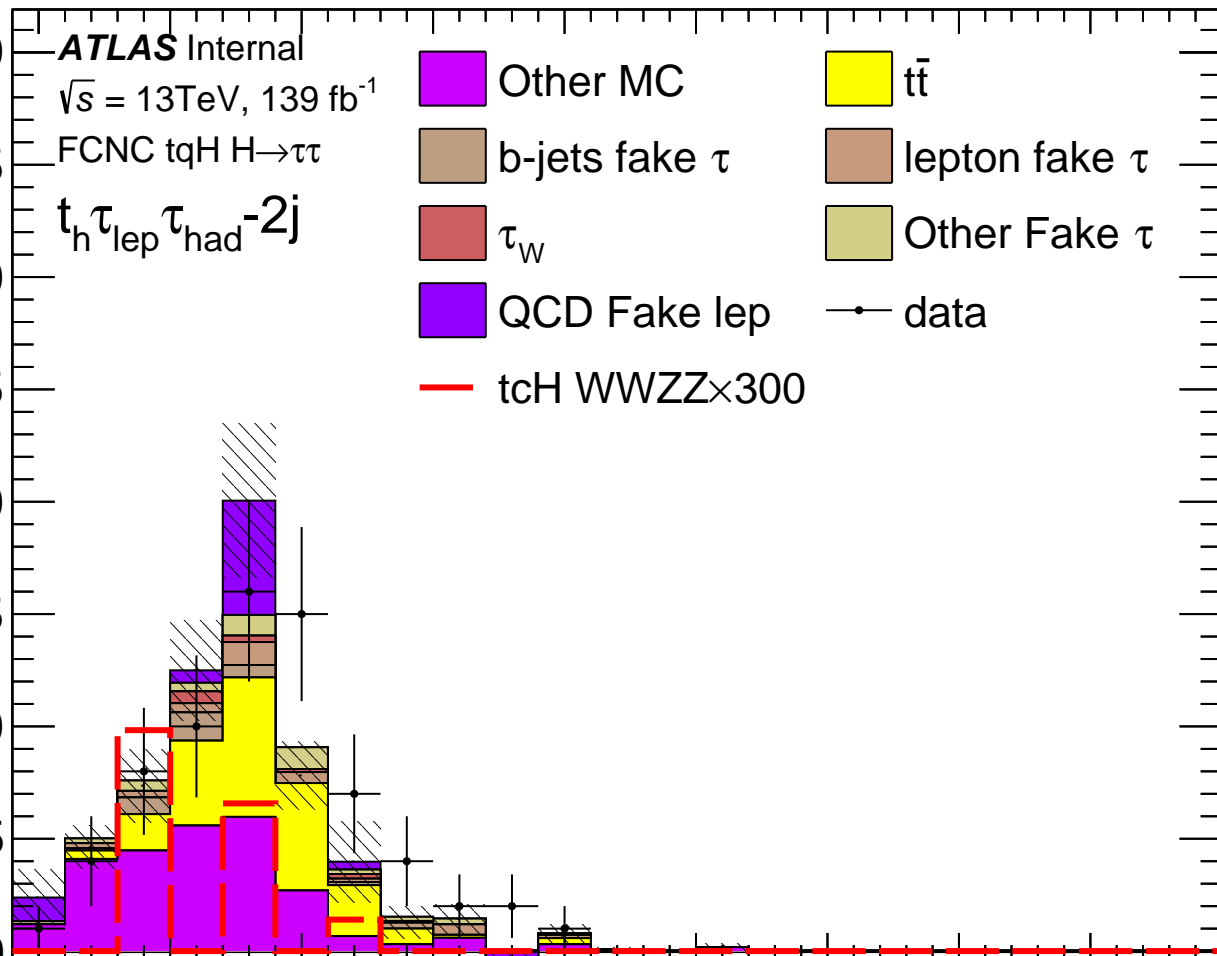
Other MC

b-jets fake τ τ_W

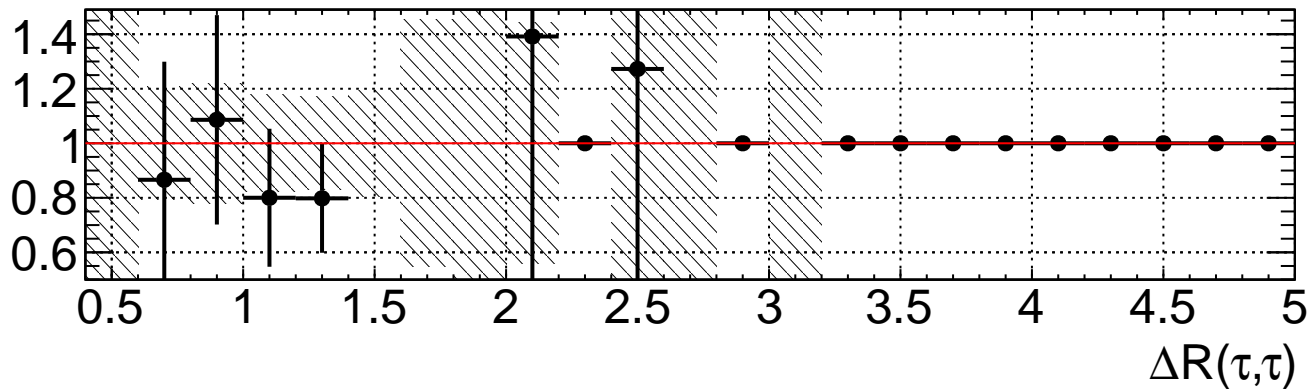
QCD Fake lep

tcH WWZZ $\times 300$ $t\bar{t}$ lepton fake τ Other Fake τ

—•— data



Data/Bkg



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ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$
FCNC $t\bar{q}H \rightarrow \tau\tau$
 $t_h \tau_{\text{lep}} \tau_{\text{had}} - 2j$

Other MC

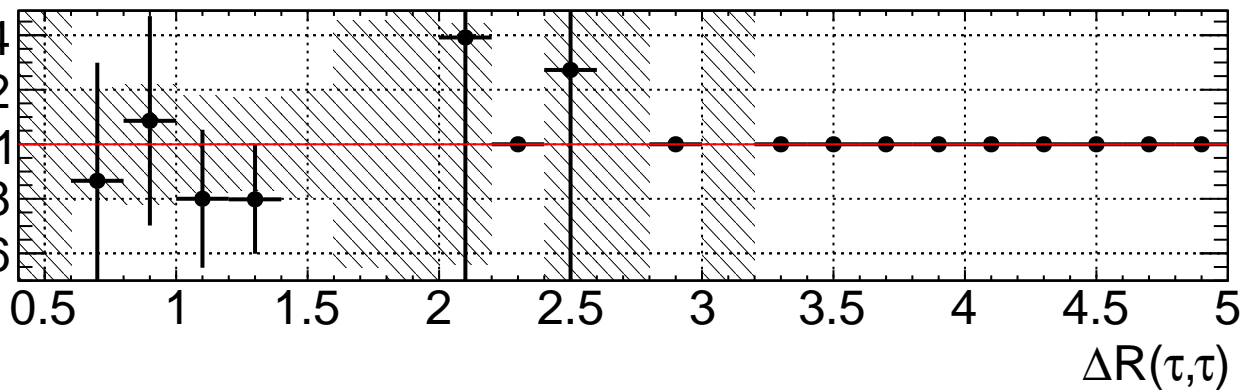
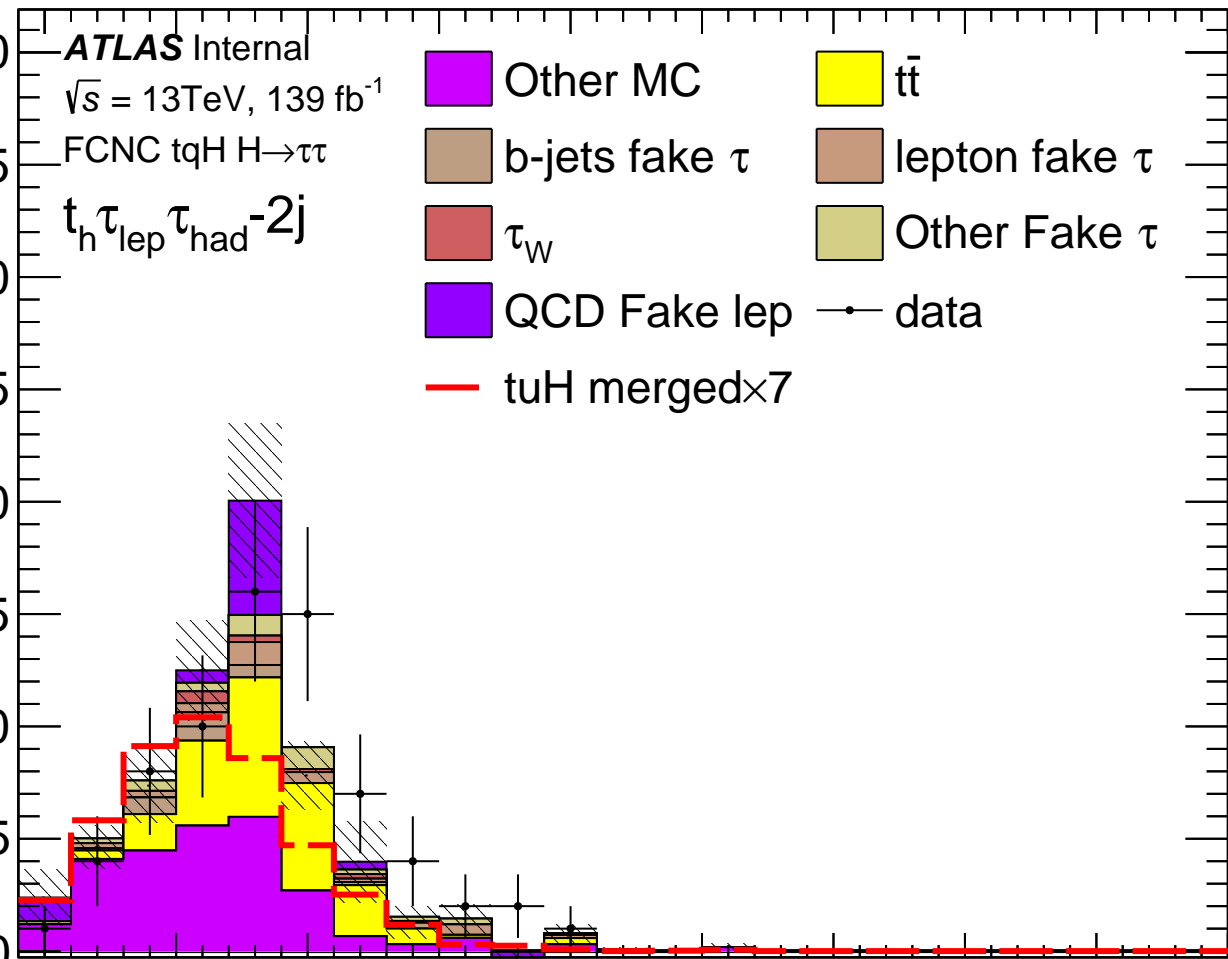
b-jets fake τ τ_W

QCD Fake lep

tuH merged $\times 7$ $t\bar{t}$ lepton fake τ Other Fake τ

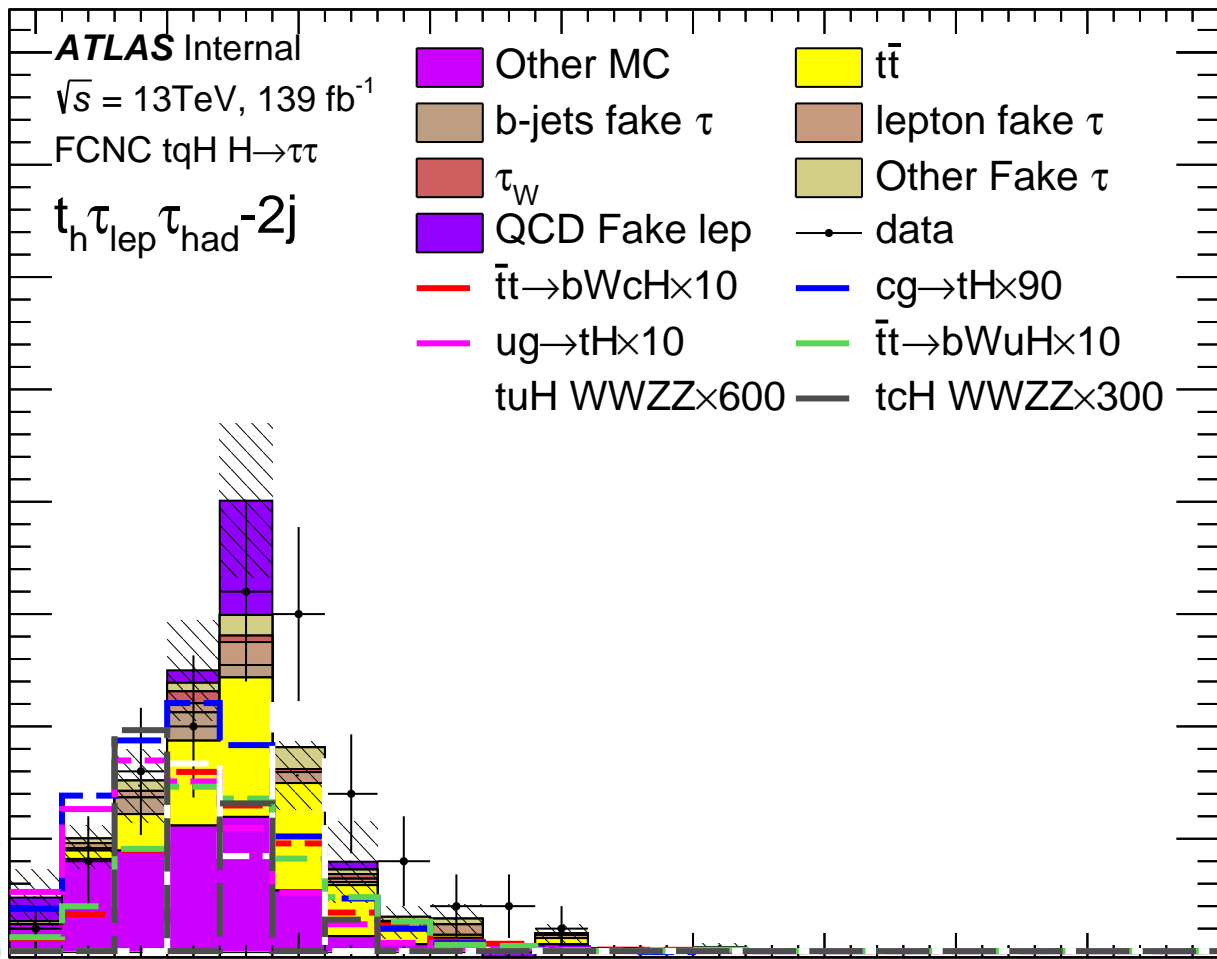
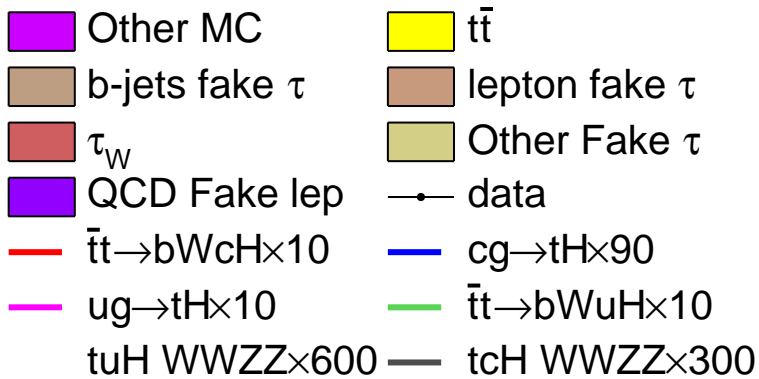
data

Data/Bkg



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



Data/Bkg

