

Events / 0.25

ATLAS Internal
 $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$

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

Other MC

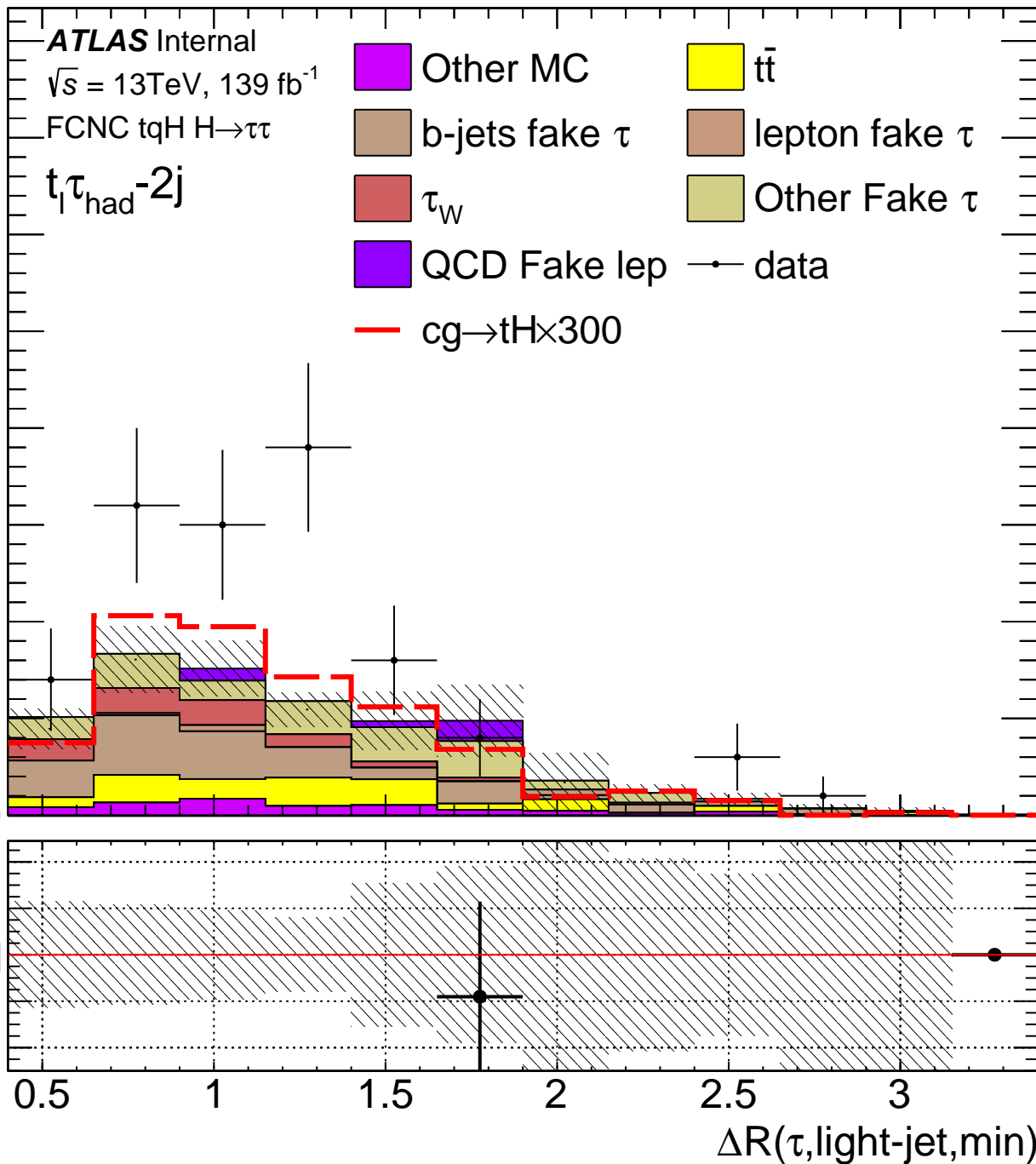
b-jets fake τ τ_W

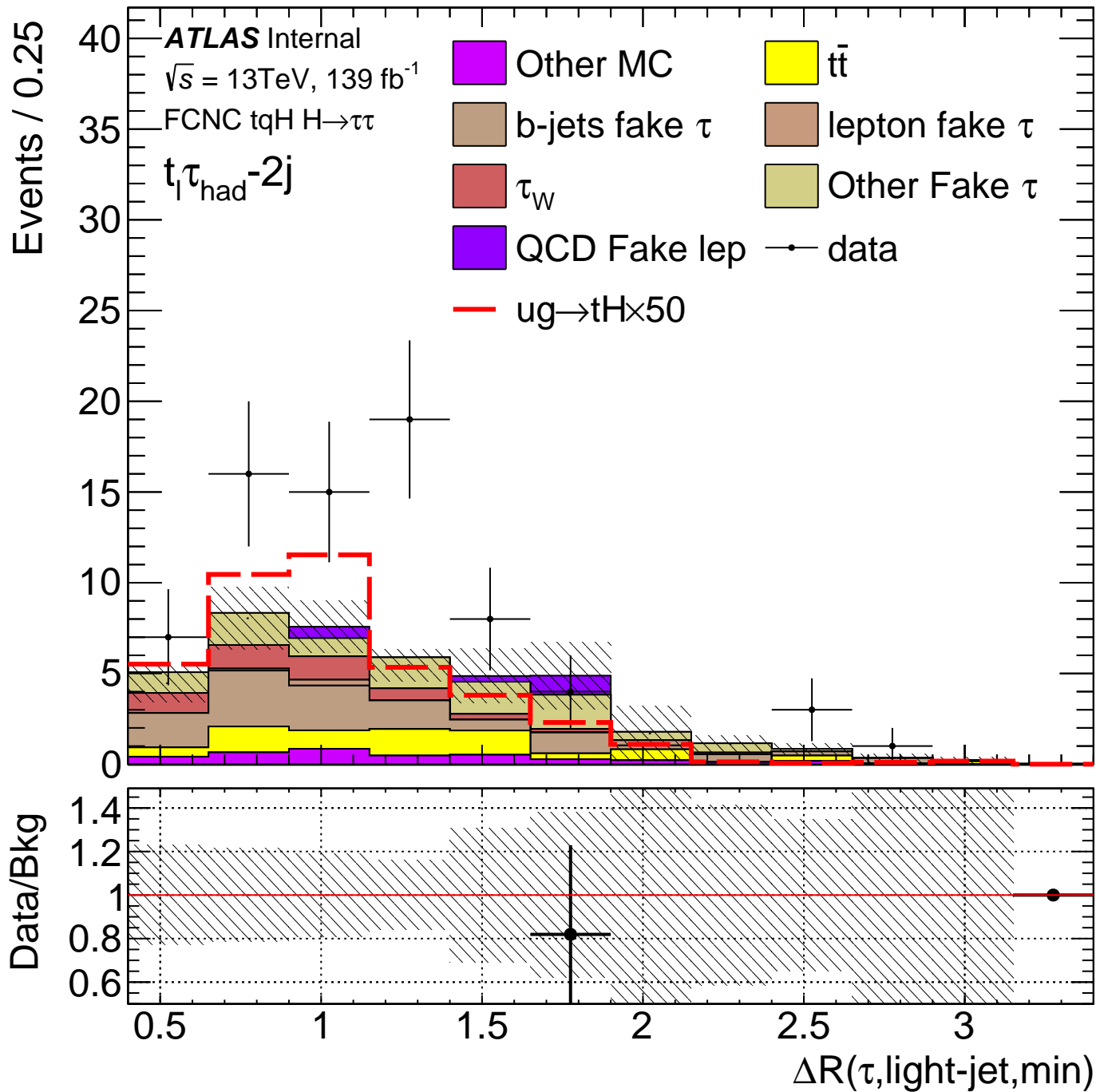
QCD Fake lep

 $cg \rightarrow tH \times 300$ $t\bar{t}$ lepton fake τ Other Fake τ

data

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 



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

Other MC

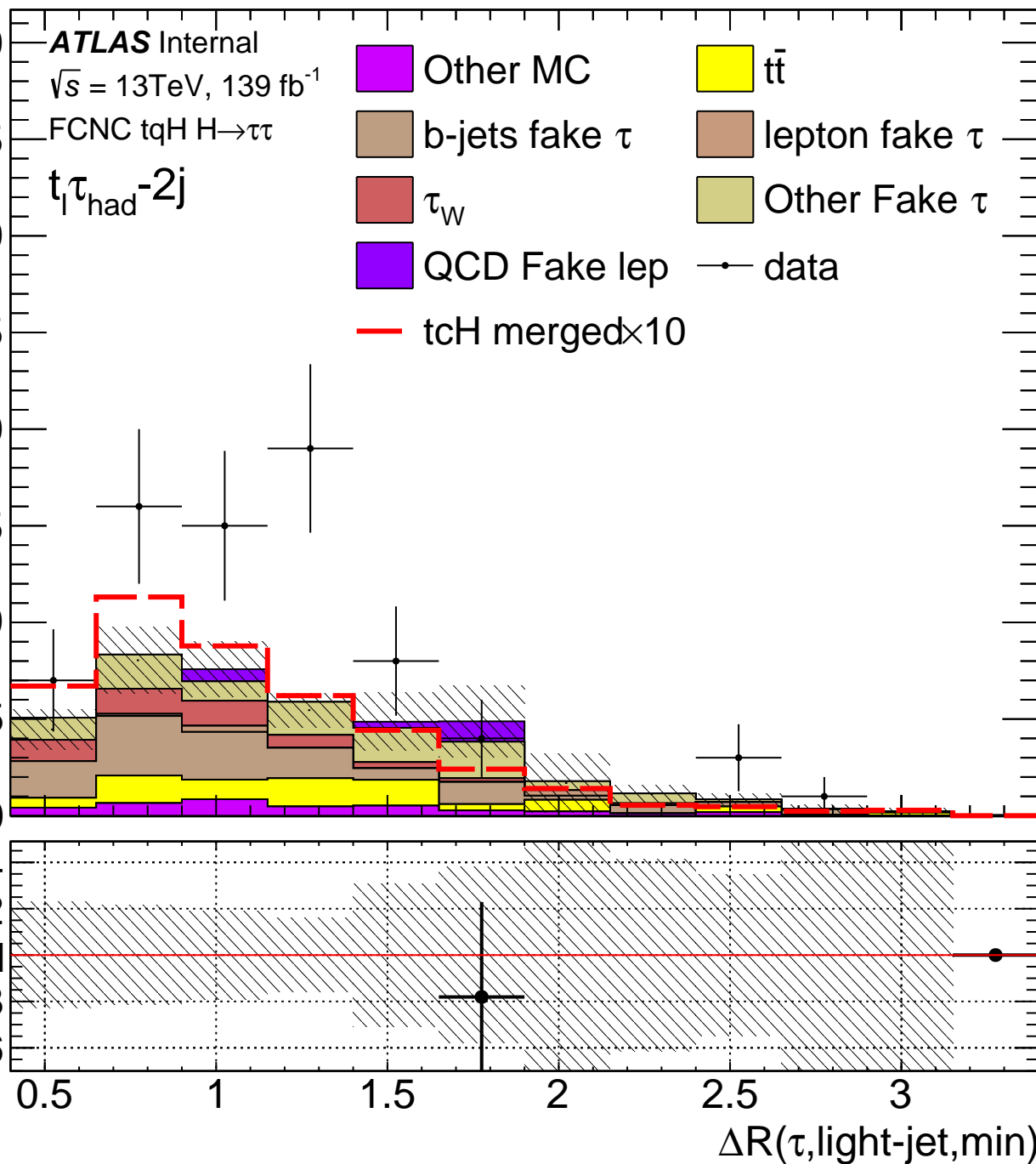
b-jets fake τ τ_W

QCD Fake lep

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

data

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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

Other MC

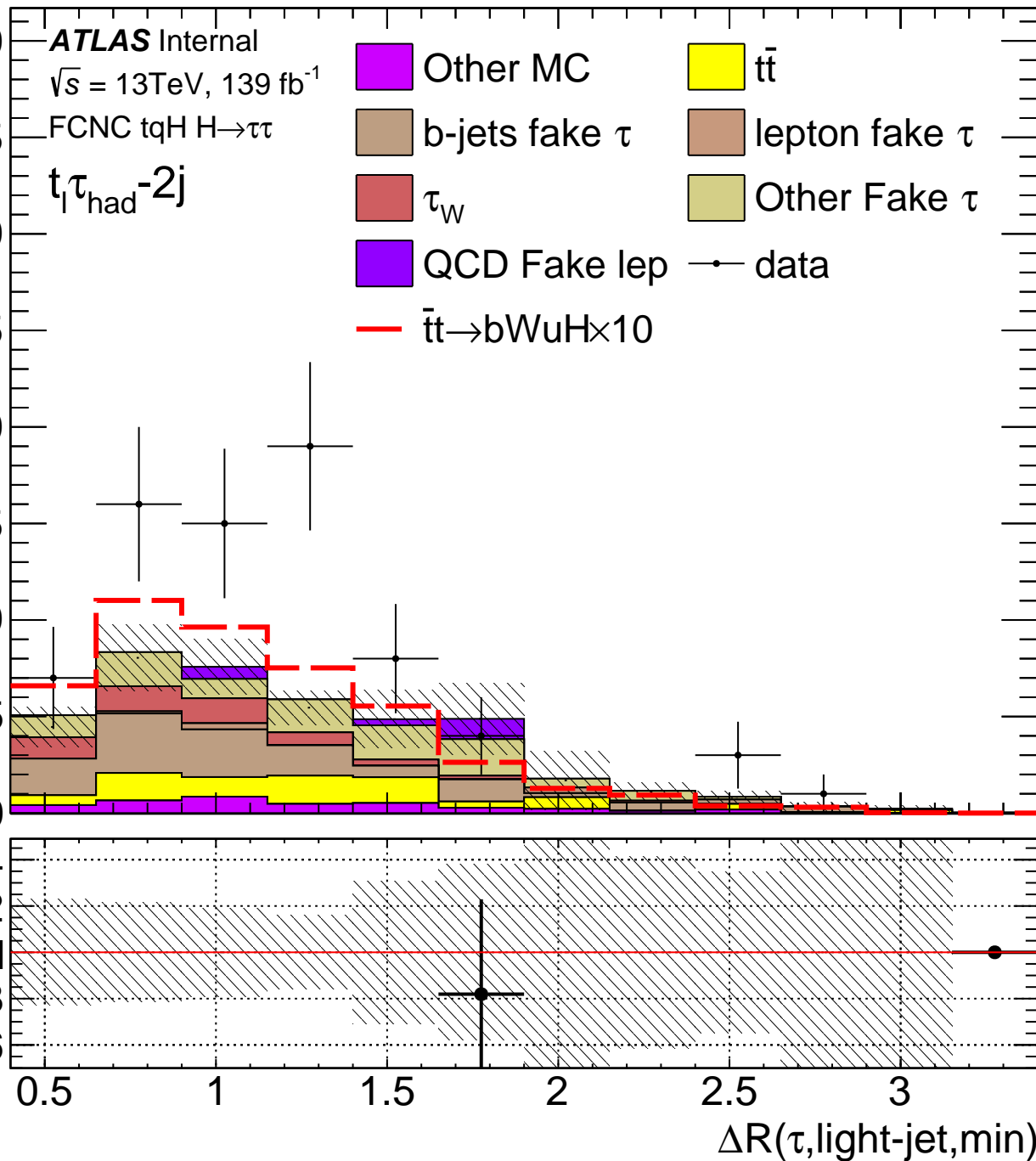
b-jets fake τ τ_W

QCD Fake lep

 $\bar{t}t \rightarrow bWuH \times 10$ $\bar{t}t$ lepton fake τ Other Fake τ

data

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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 $\sqrt{s} = 13\text{TeV}, 139\text{ fb}^{-1}$

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

Other MC

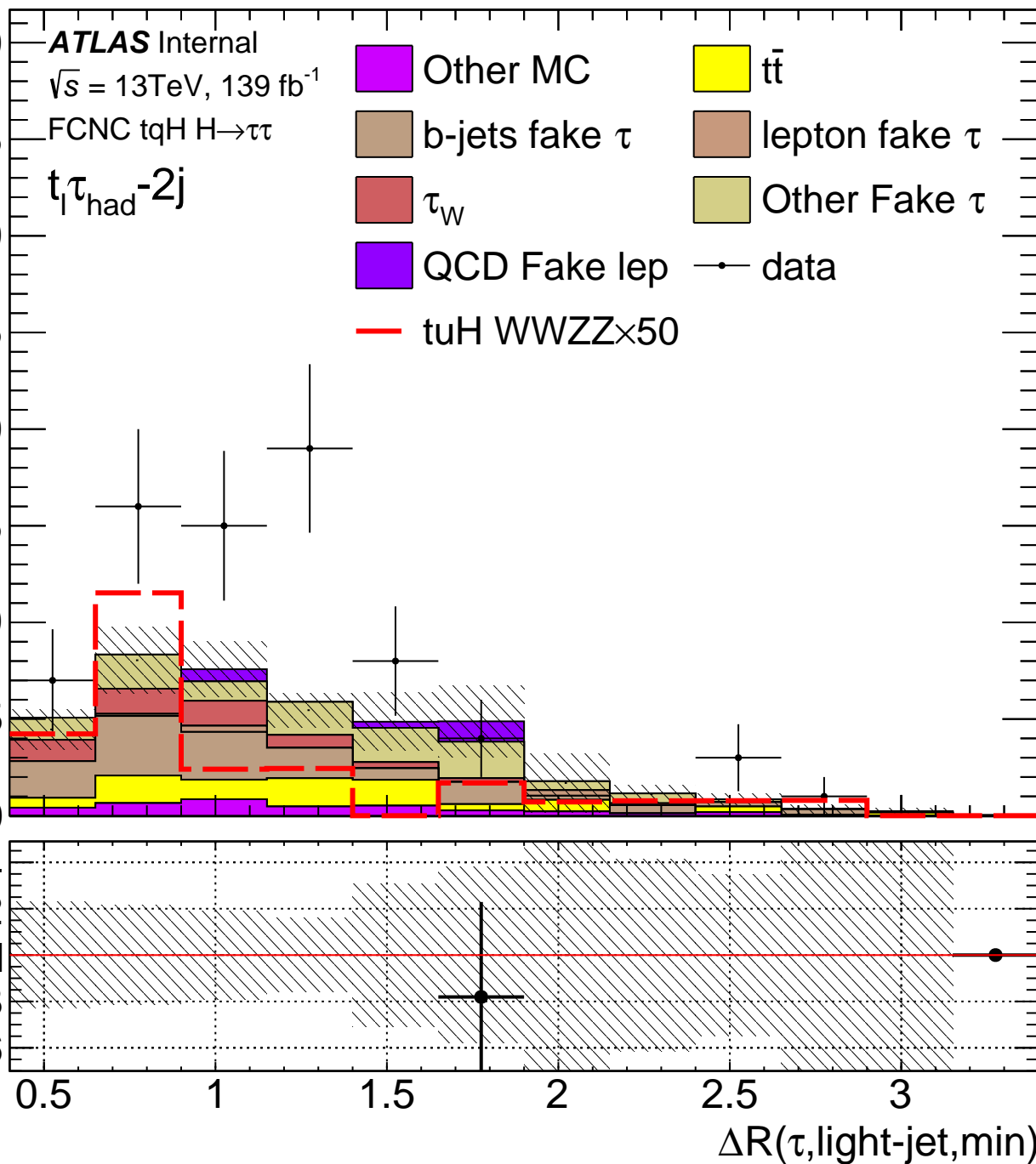
b-jets fake τ τ_W

QCD Fake lep

— $t\bar{u}H \text{ WWZZ} \times 50$ $t\bar{t}$ lepton fake τ Other Fake τ

—•— data

Data/Bkg

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

Other MC

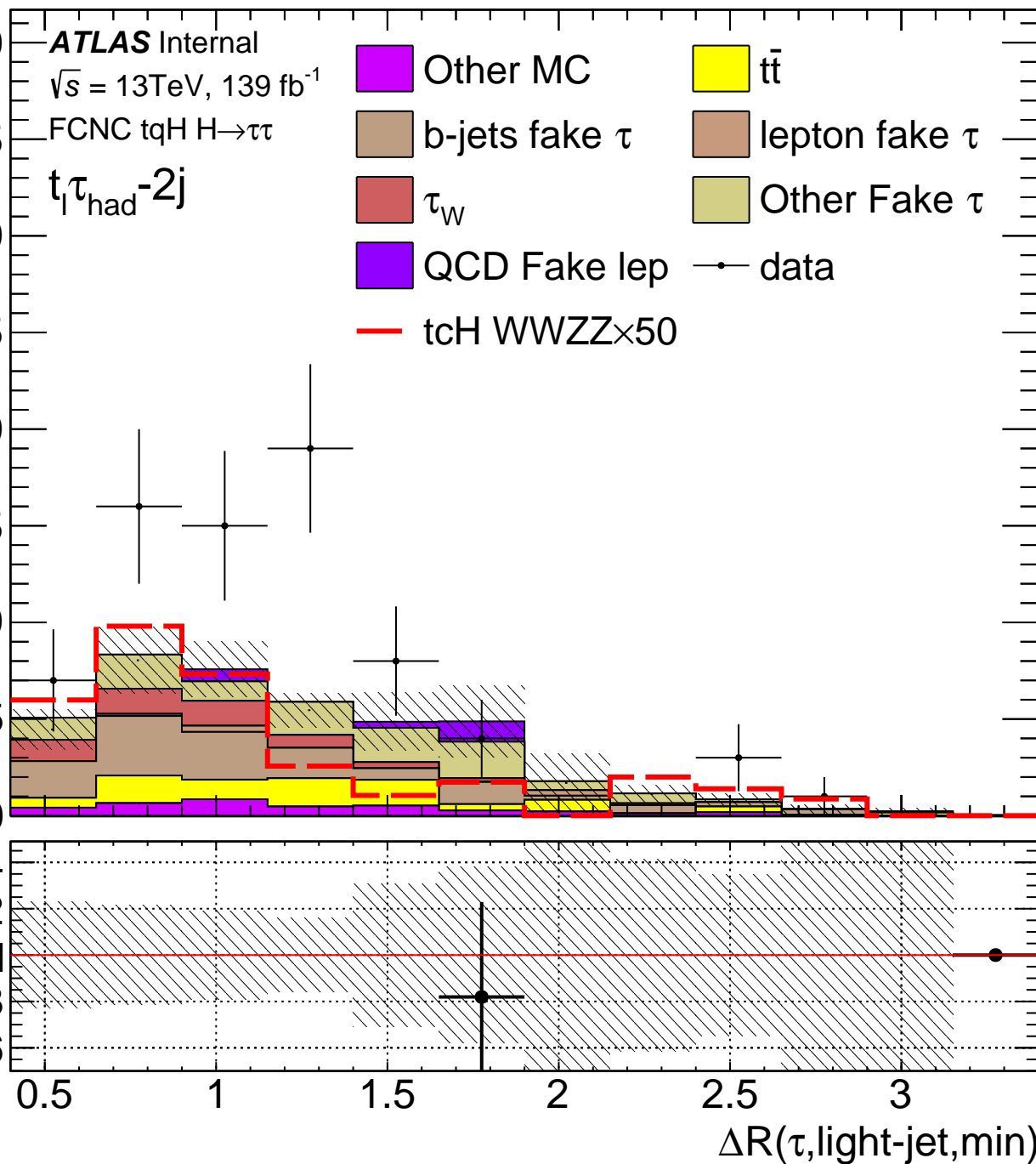
b-jets fake τ τ_W

QCD Fake lep

tcH WWZZ $\times 50$ $t\bar{t}$ lepton fake τ Other Fake τ

data

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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

Other MC

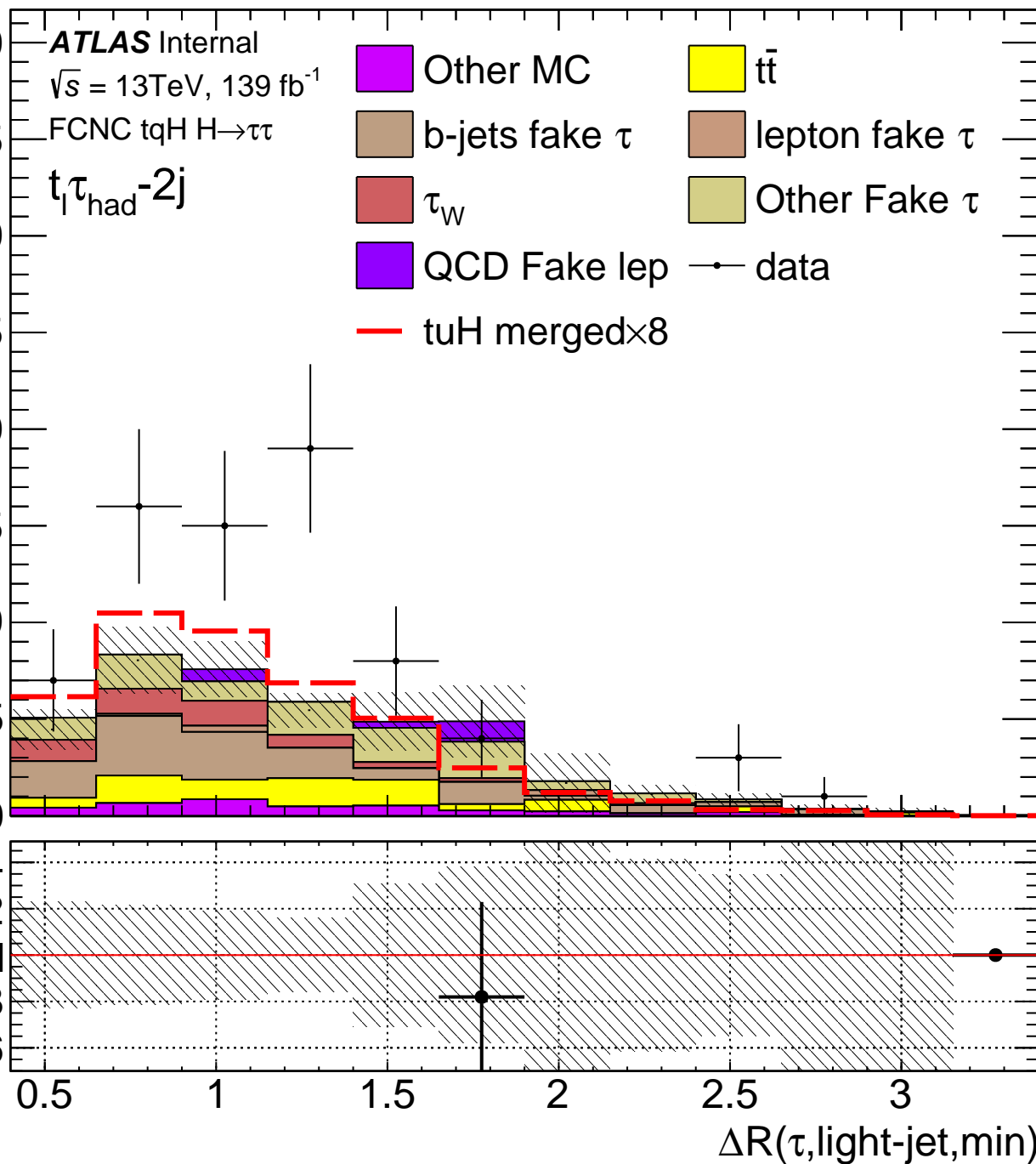
b-jets fake τ τ_W

QCD Fake lep

tuH merged $\times 8$ $t\bar{t}$ lepton fake τ Other Fake τ

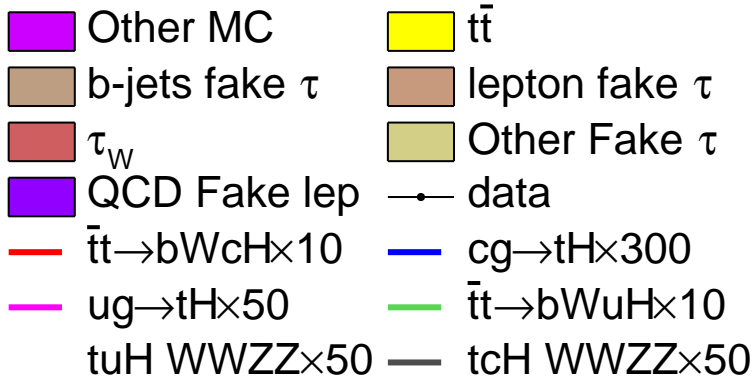
data

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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



Data/Bkg

