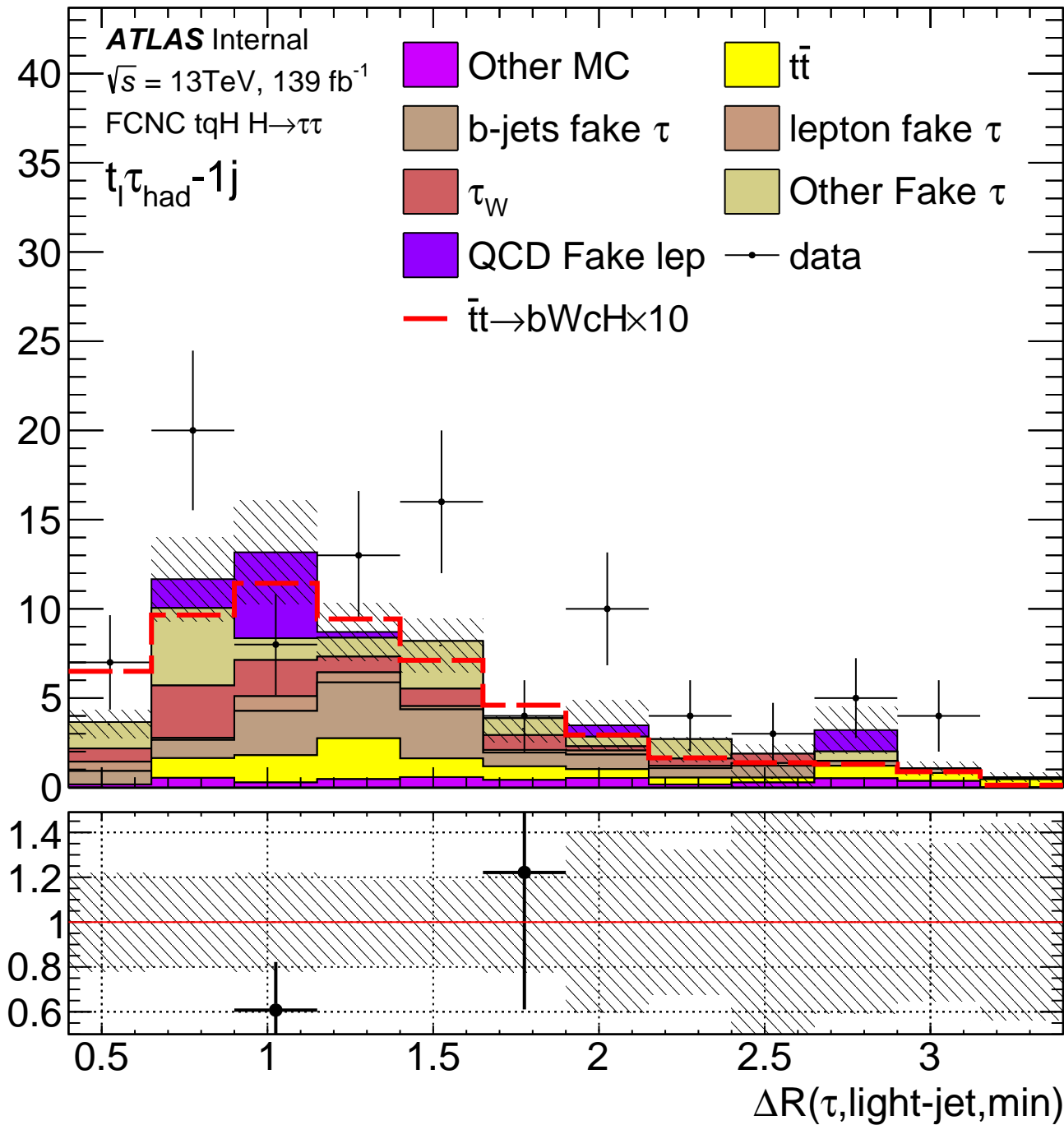


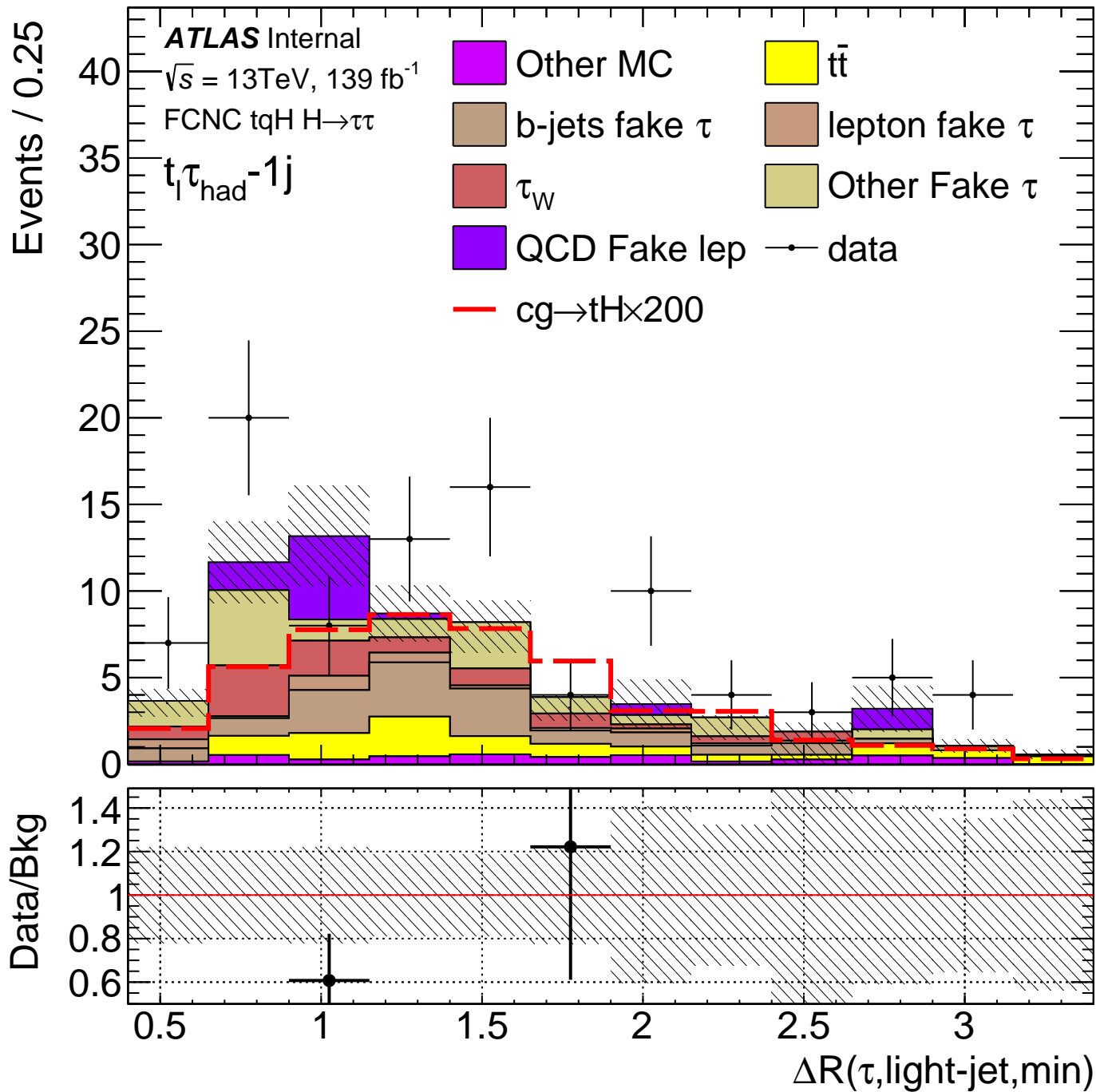
Events / 0.25

Data/Bkg

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

Other MC
b-jets fake τ
 τ_W
QCD Fake lep
 $\bar{t}t \rightarrow bWcH \times 10$
 $t\bar{t}$
lepton fake τ
Other Fake τ
data





Events / 0.25

Data/Bkg

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

FCNC $t\bar{q}H \rightarrow \tau\tau$ $t_l\tau_{\text{had}}^{-1}j$

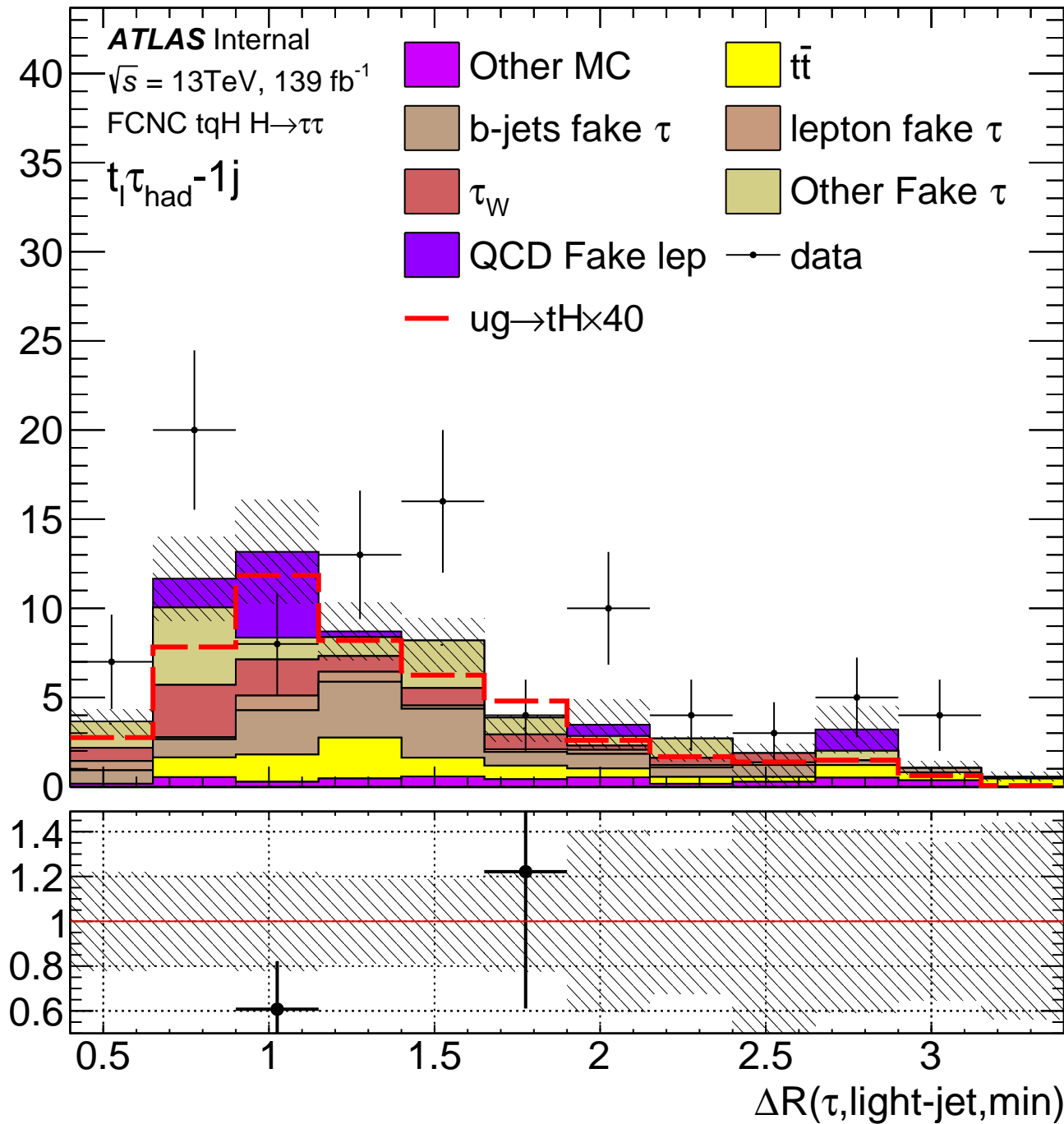
Other MC

b-jets fake τ τ_W

QCD Fake lep

— $u\bar{g} \rightarrow t\bar{t}H \times 40$ $t\bar{t}$ lepton fake τ Other Fake τ

— data



Events / 0.25

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

FCNC $t\bar{q}H \rightarrow H \rightarrow \tau\tau$

$t_l \tau_{\text{had}}^{-1} j$

Other MC

b-jets fake τ

τ_W

QCD Fake lep

tcH merged $\times 10$

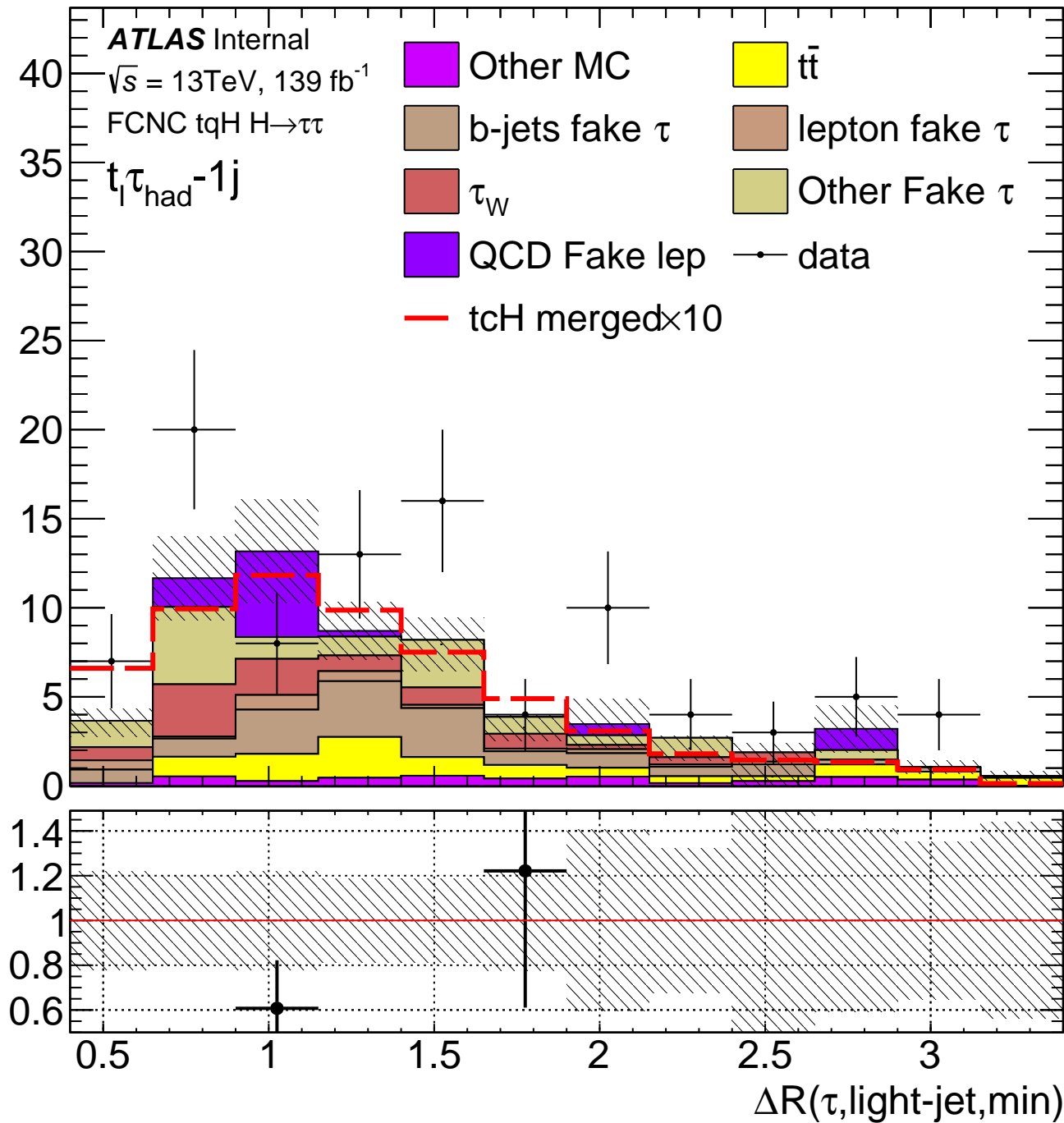
$t\bar{t}$

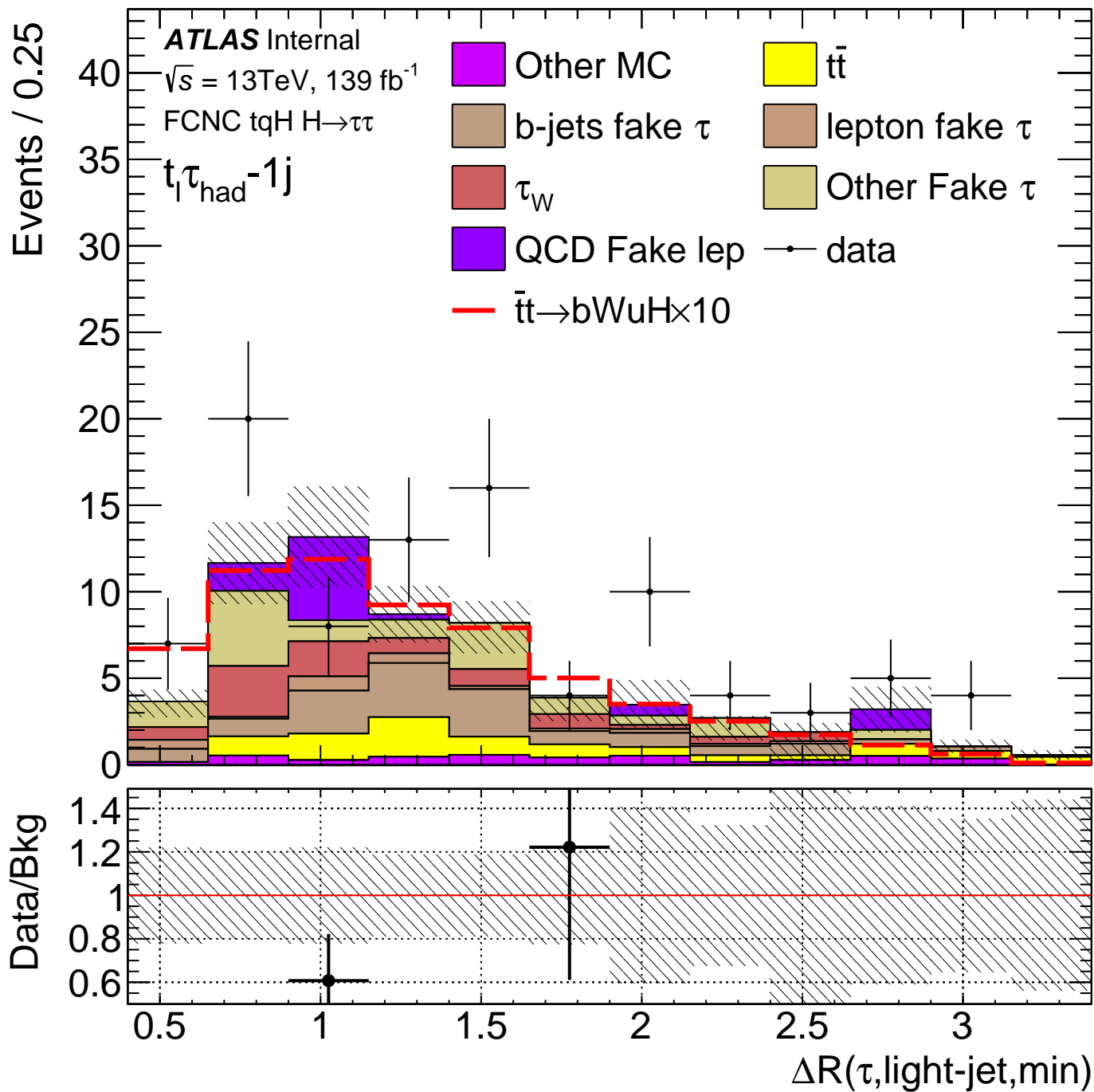
lepton fake τ

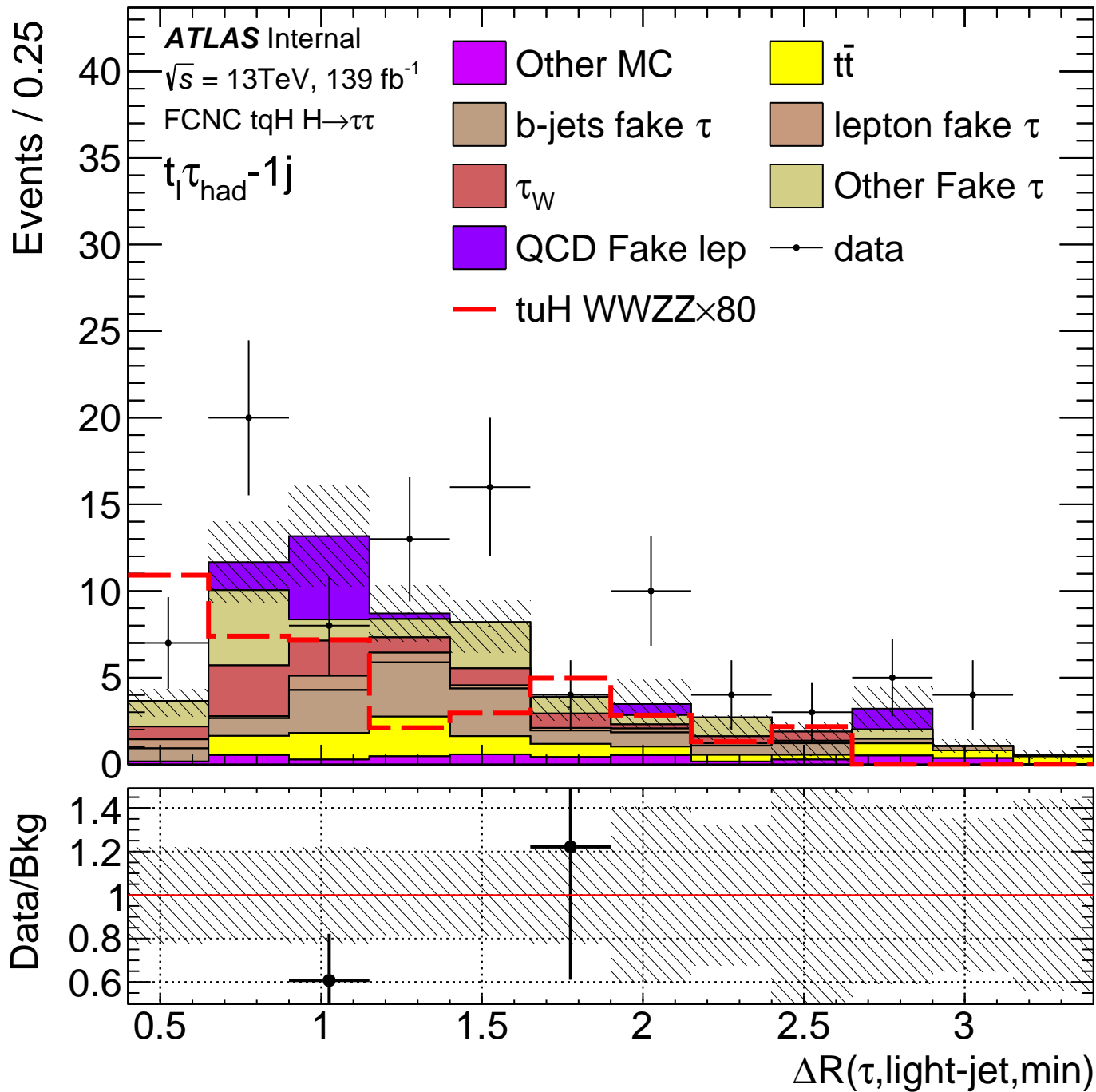
Other Fake τ

data

Data/Bkg







Events / 0.25

Data/Bkg

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

FCNC $t\bar{q}H \rightarrow \tau\tau$ $t_l\tau_{\text{had}}^{-1}j$

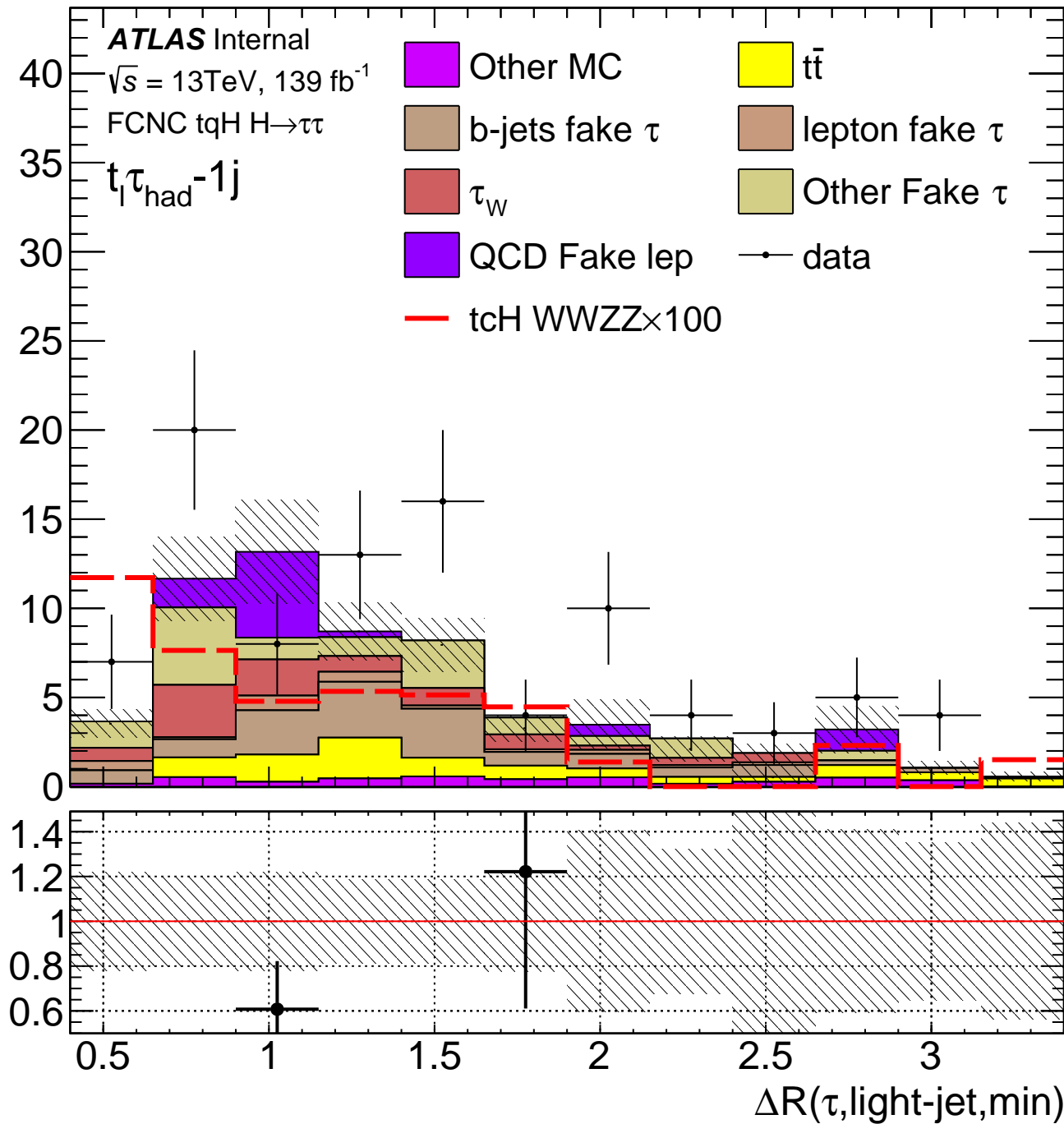
Other MC

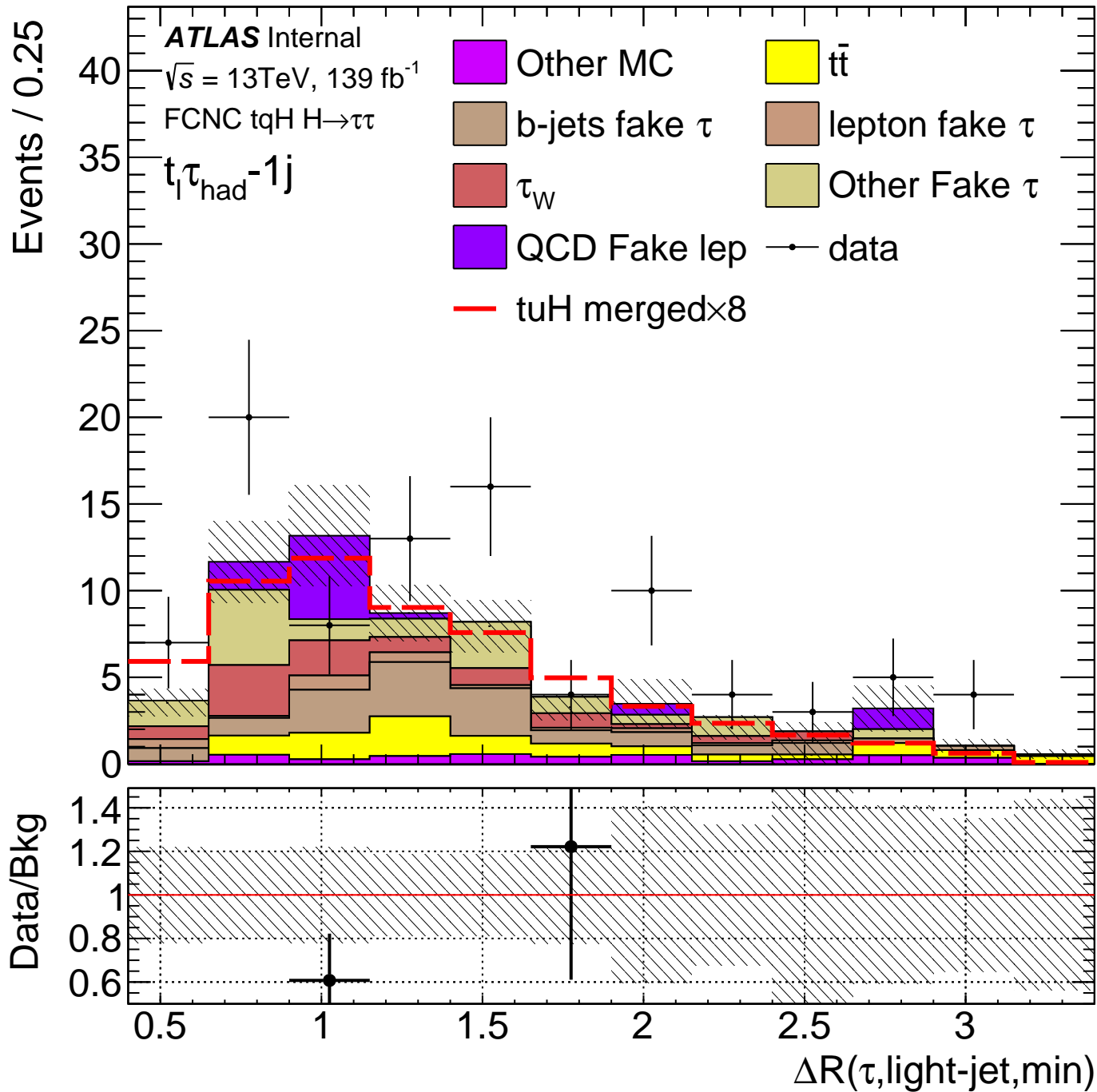
b-jets fake τ τ_W

QCD Fake lep

tcH WWZZ $\times 100$ $t\bar{t}$ lepton fake τ Other Fake τ

—•— data





Events / 0.25

Data/Bkg

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

