

Events / 1.00

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

Other MC

b-jets fake τ  τ_W 

QCD Fake lep

tcH merged $\times 7000$  $t\bar{t}$ lepton fake τ Other Fake τ 

data

25

20

15

10

5

0

Data/Bkg

1.4

1.2

1.0

0.8

0.6

0

1

2

3

4

5

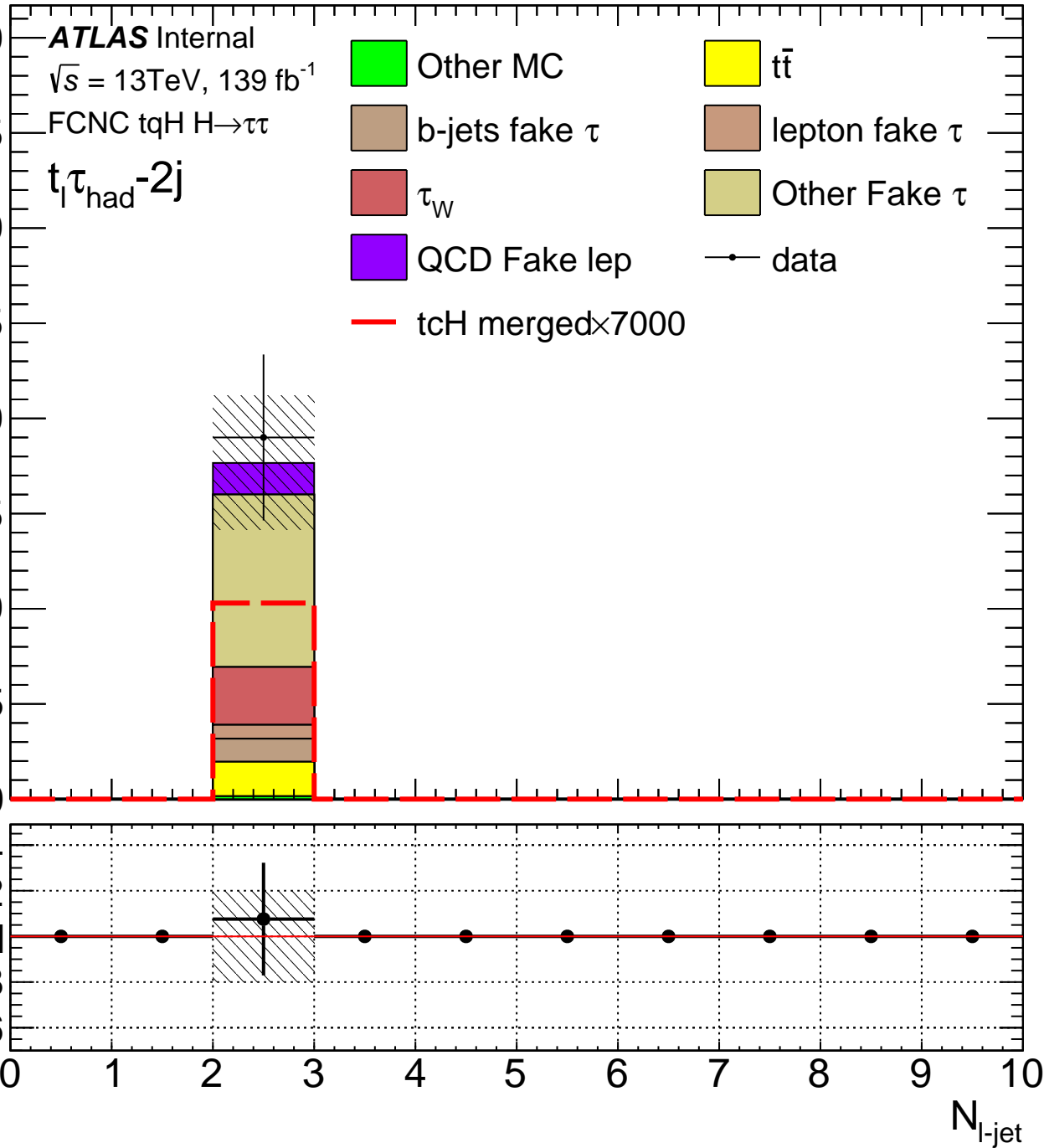
6

7

8

9

10

 $N_{l\text{-jet}}$ 

Events / 1.00

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

 $\bar{t}t \rightarrow bWuH \times 4000$  $t\bar{t}$ lepton fake τ Other Fake τ 

data

40
35
30
25
20
15
10
5
0

Data/Bkg

1.4
1.2
1.0
0.8
0.6

0

1

2

3

4

5

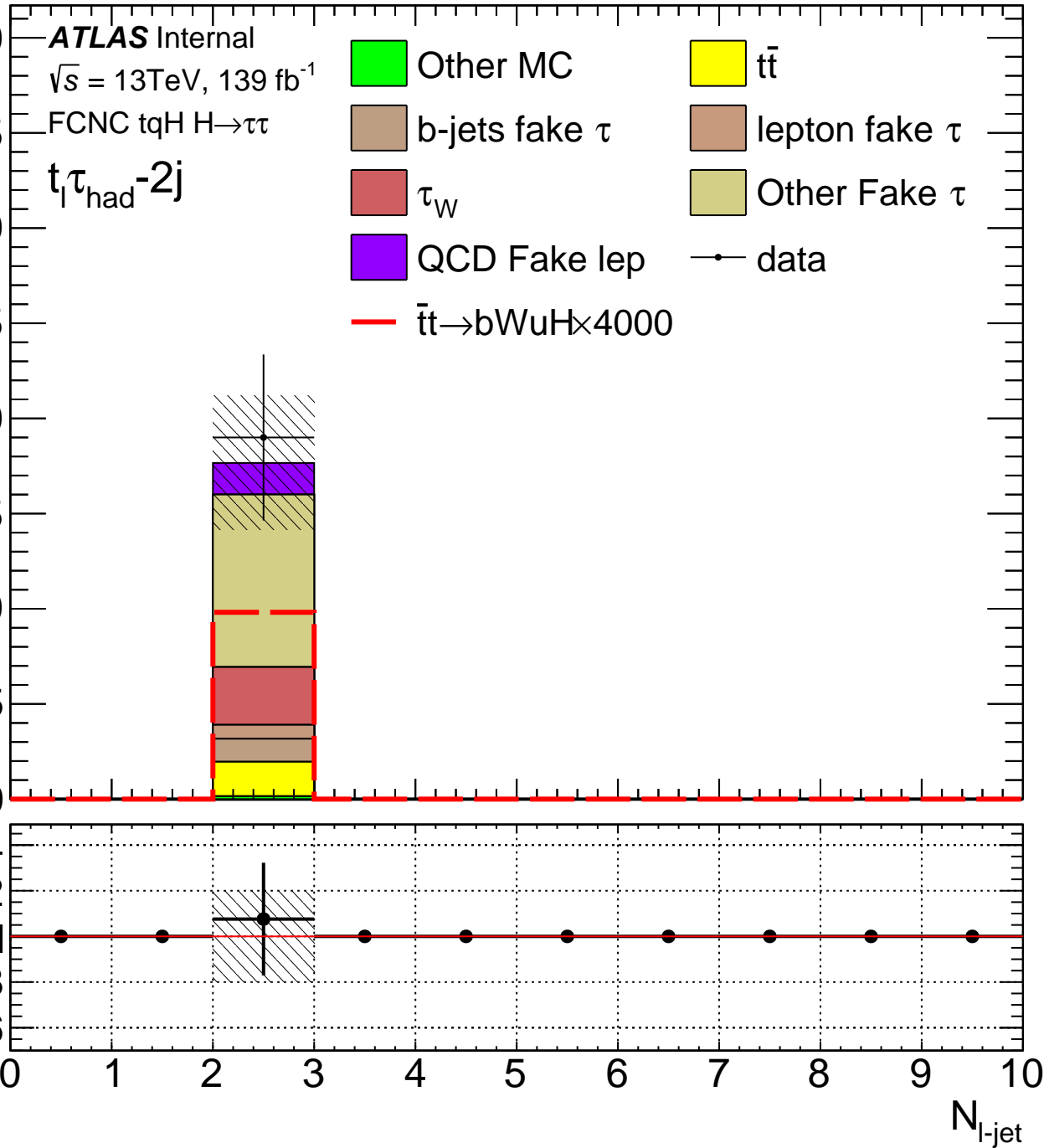
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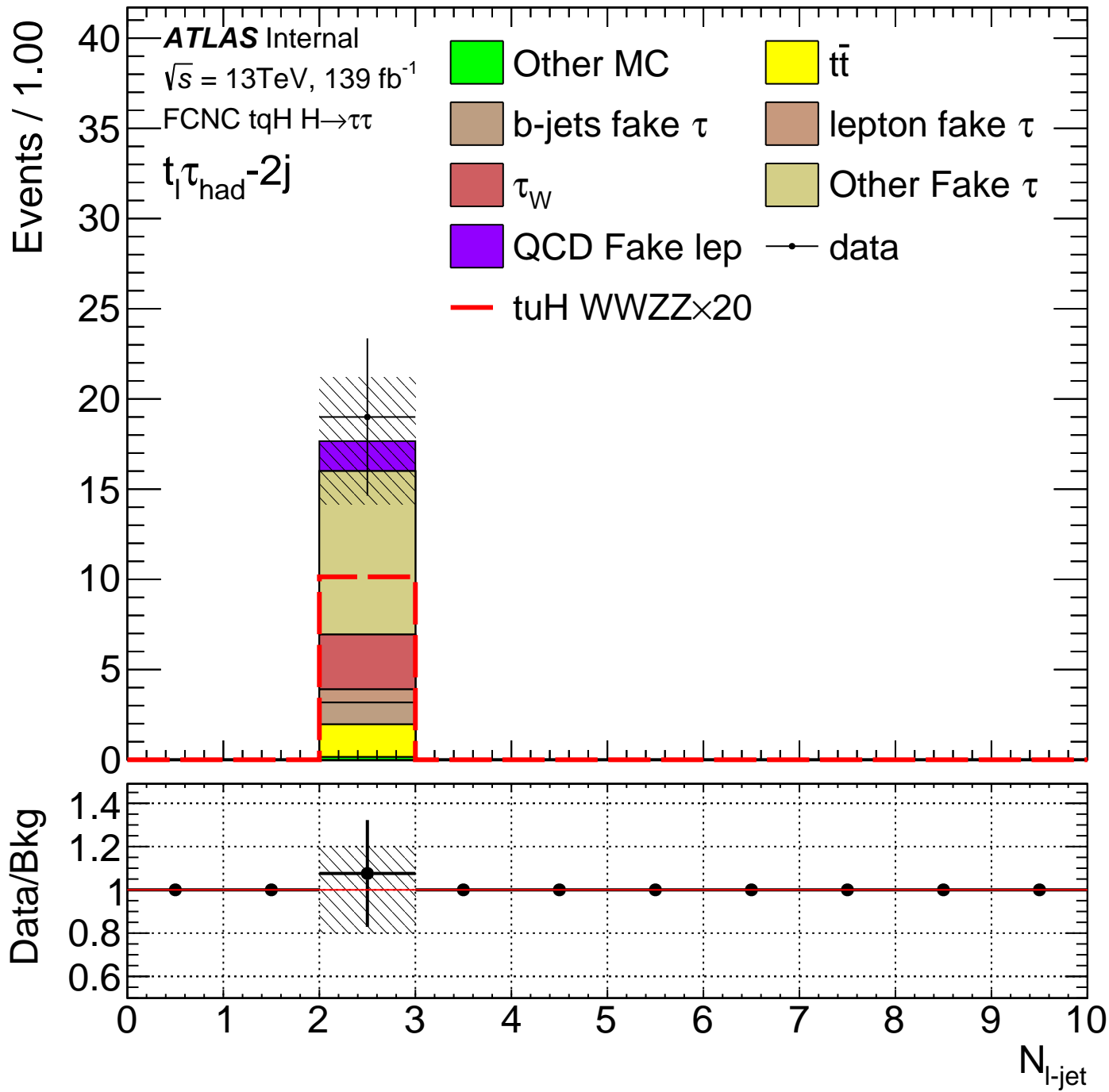
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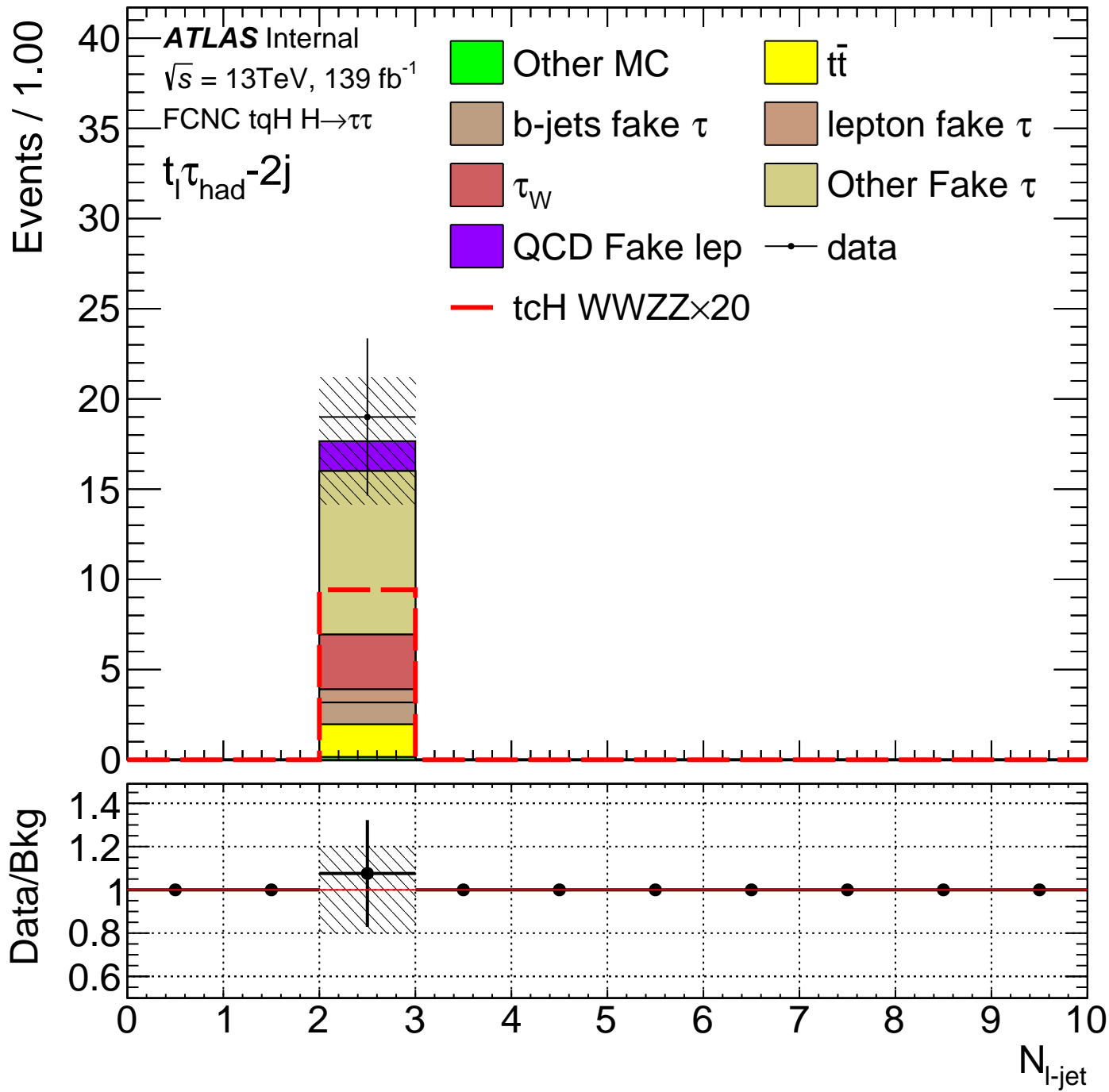
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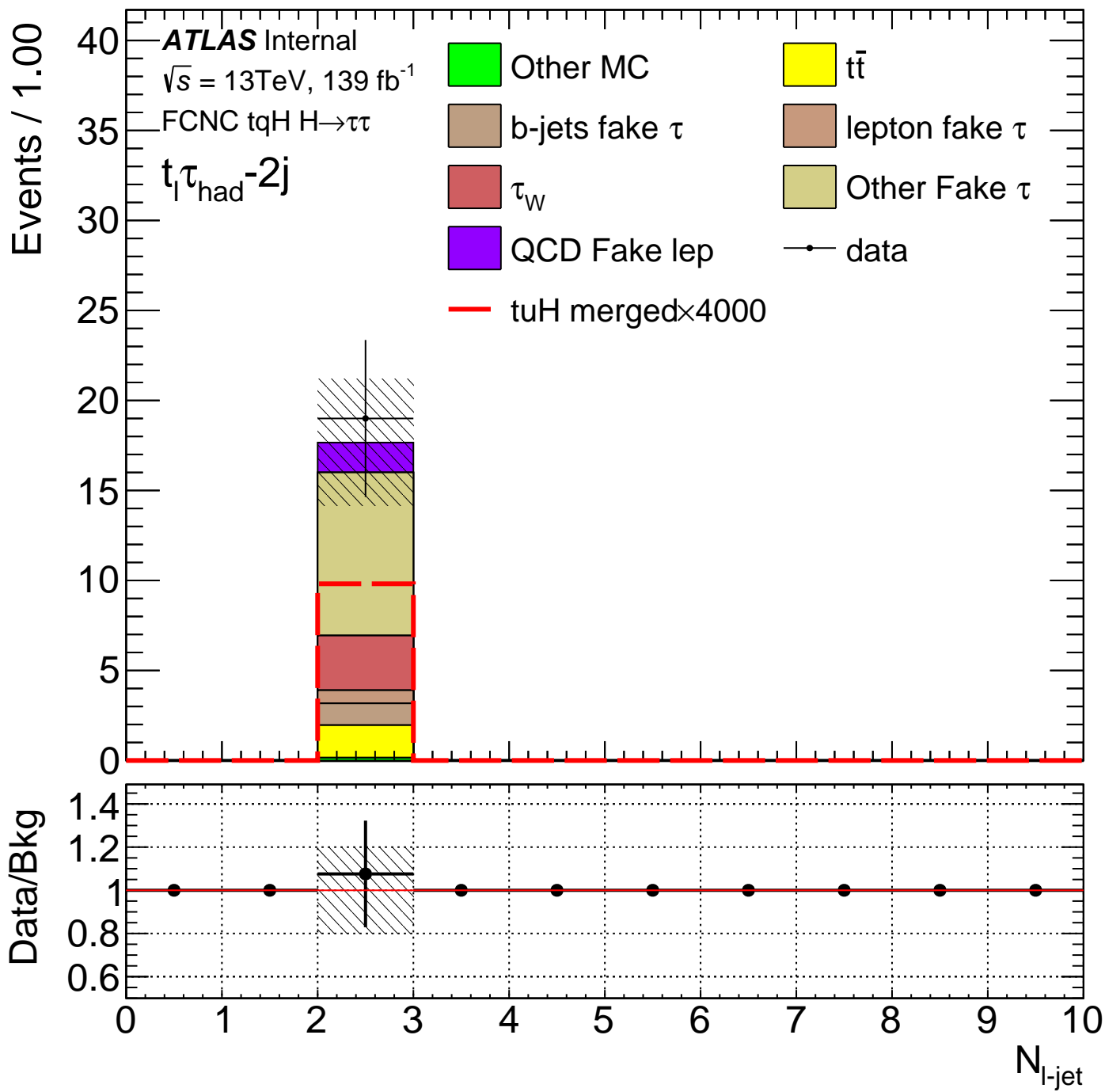
9

10

 $N_{l\text{-jet}}$ 

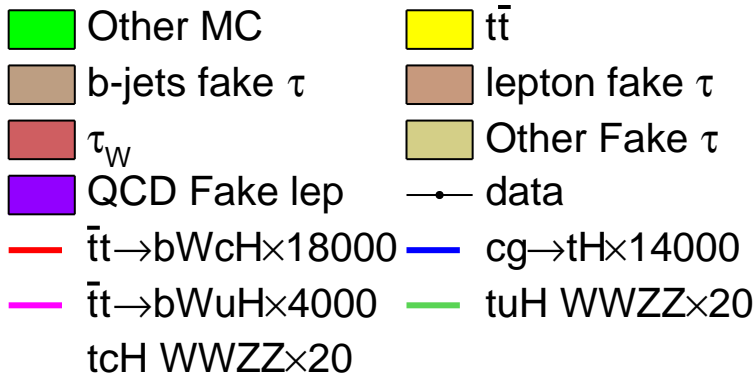






Events / 1.00

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



Data/Bkg

