

Events / 0.04

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

$t_l \tau_{\text{had}} \tau_{\text{had}}$

Other MC

b-jets fake τ

τ_W

Other Fake τ

$t\bar{t} \rightarrow bWcH \times 100$

$t\bar{t}$

lepton fake τ

double fake τ

data

50

40

30

20

10

0

Data/Bkg

1.4

1.2

1.0

0.8

0.6

0.3

0.4

0.5

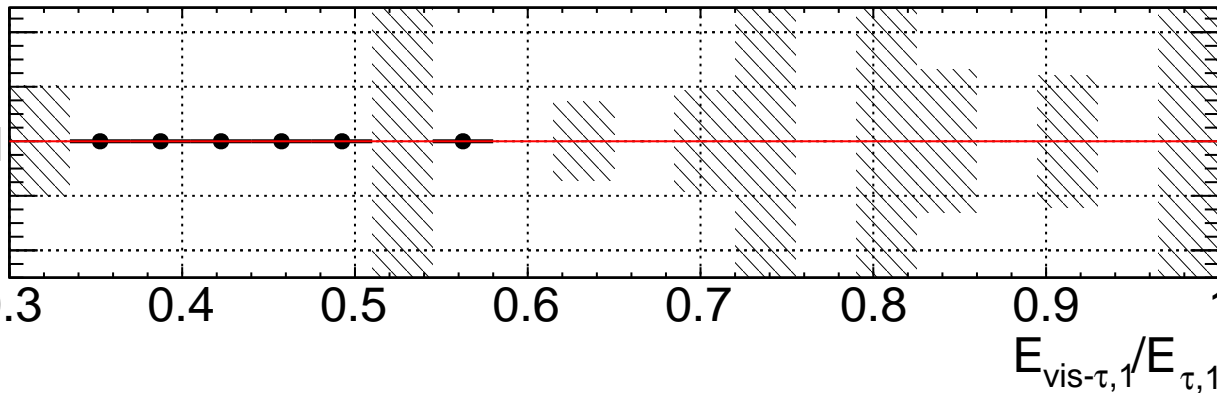
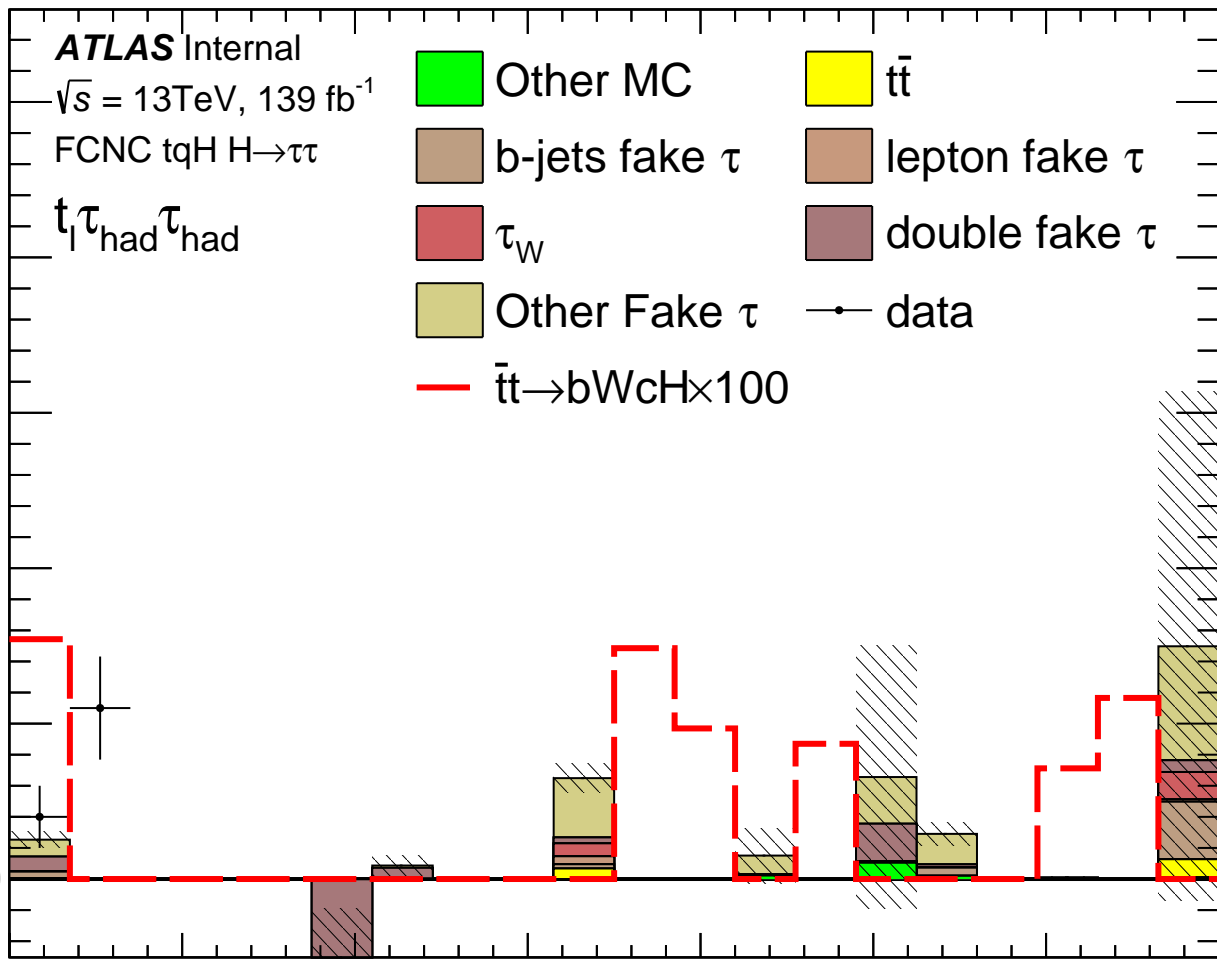
0.6

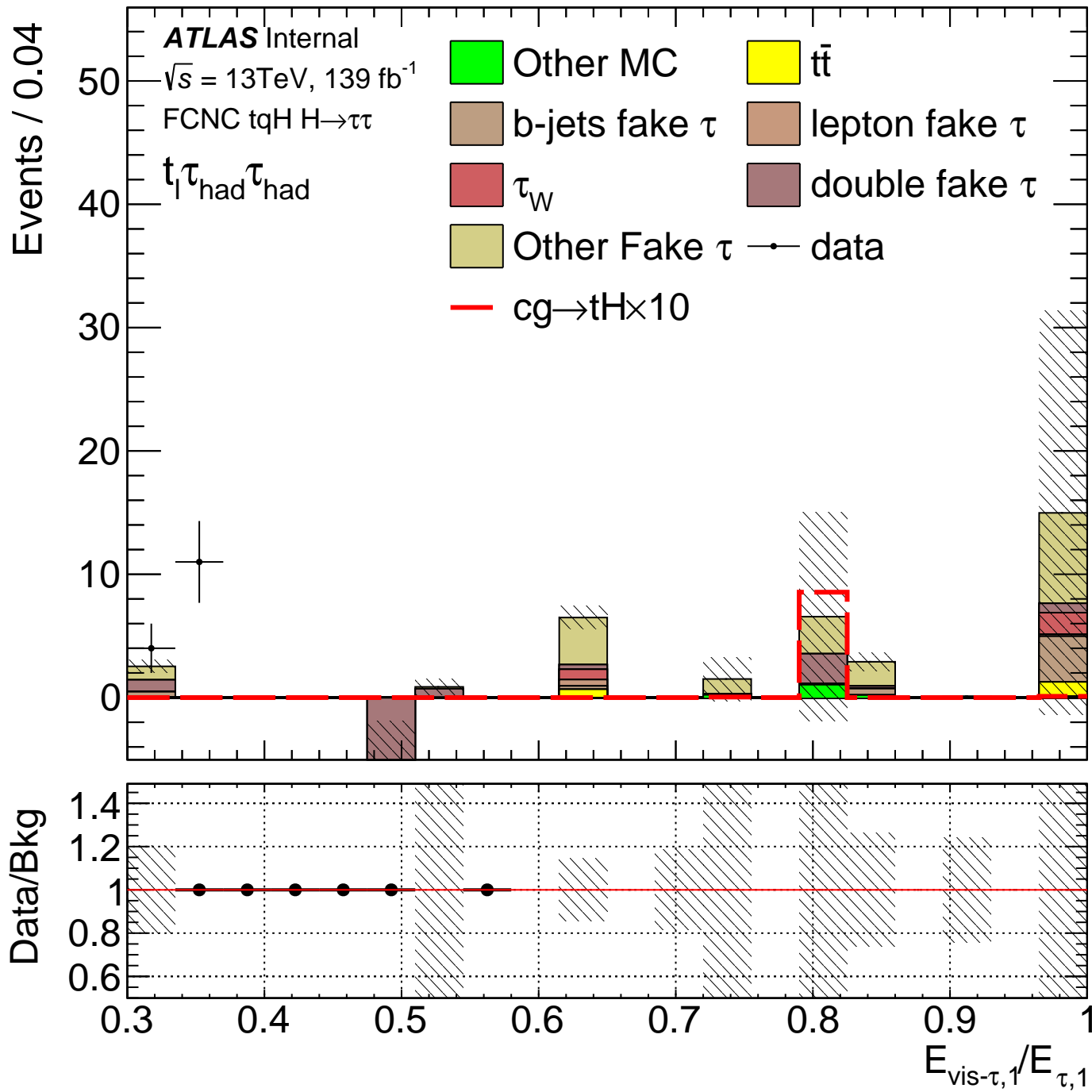
0.7

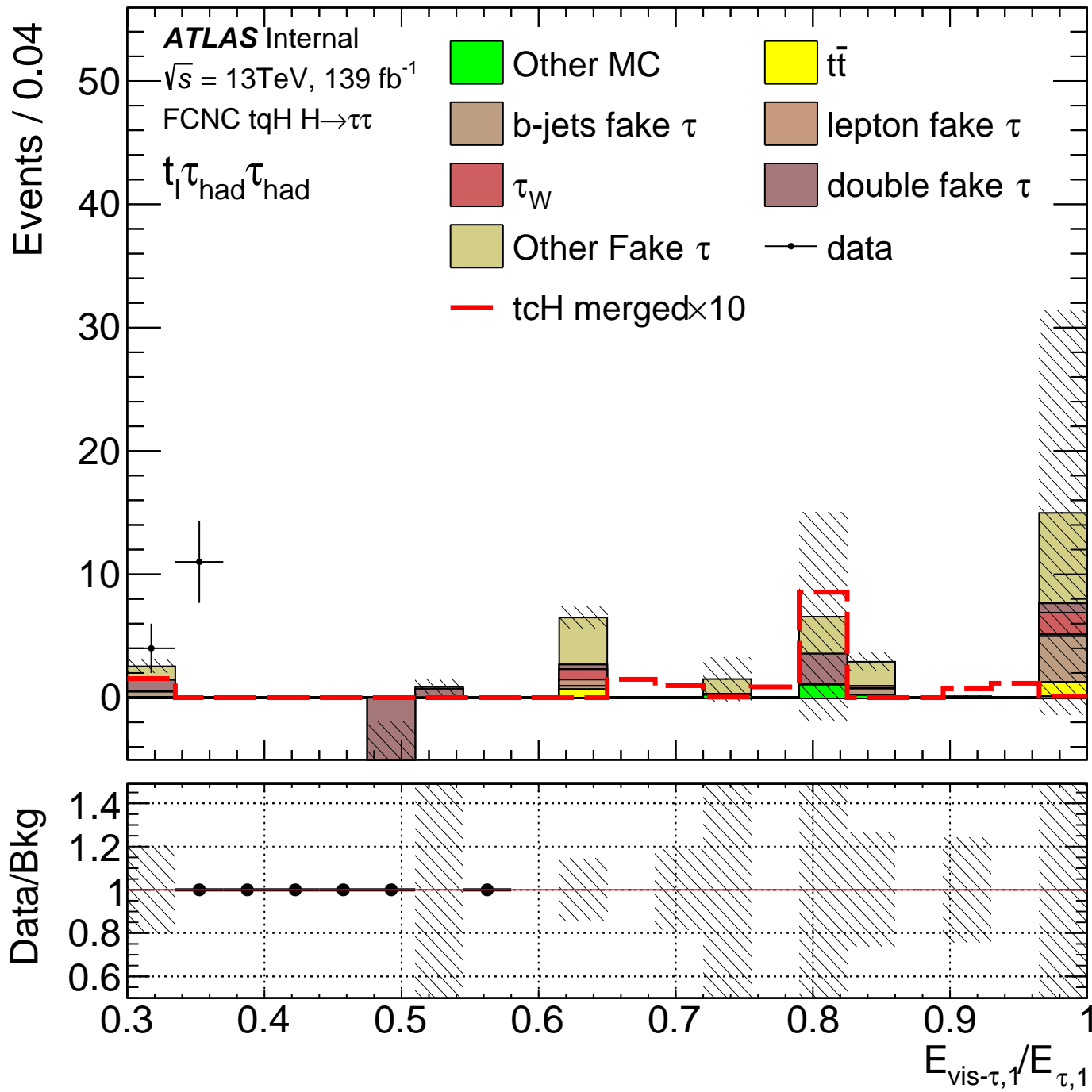
0.8

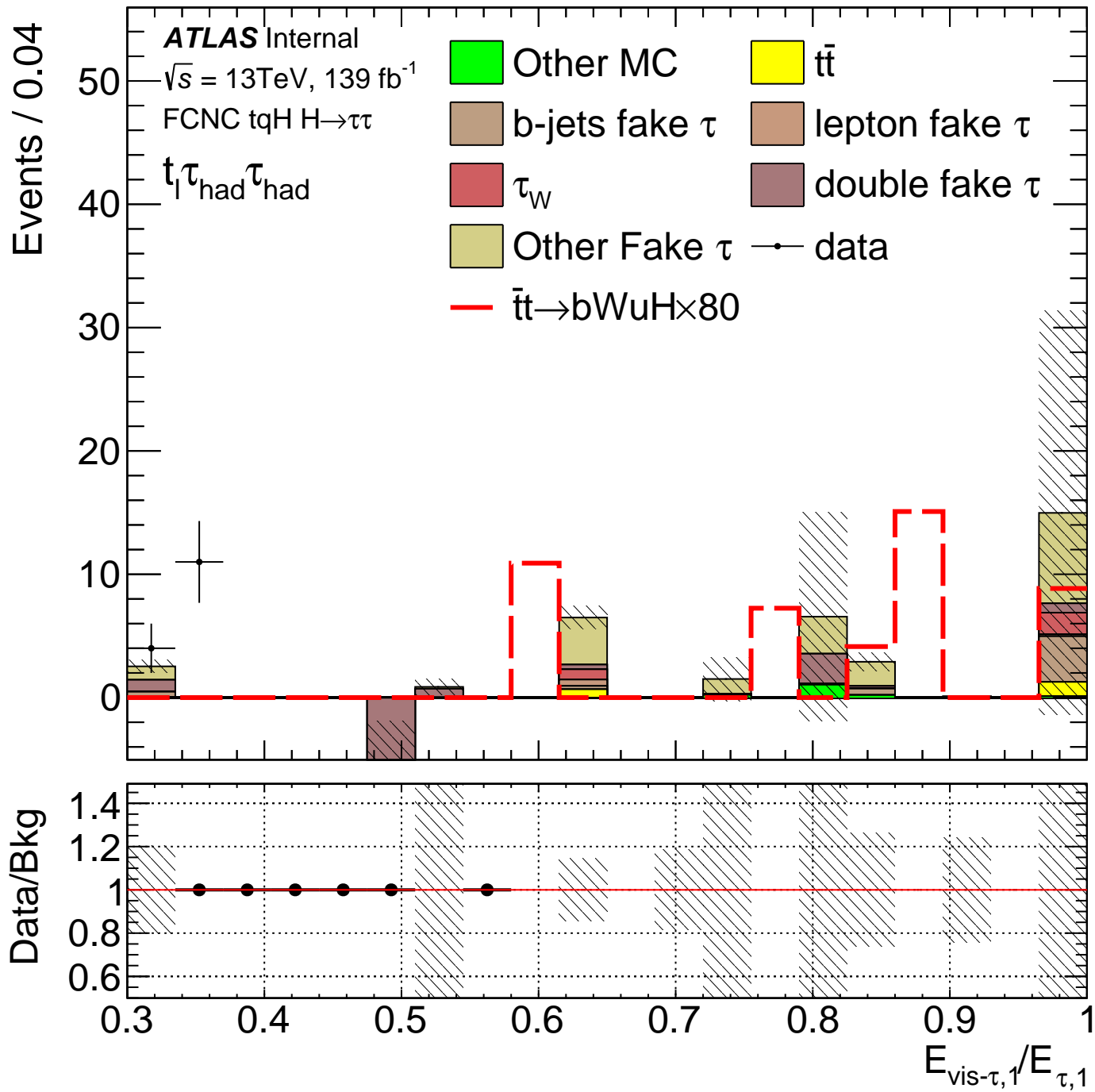
0.9

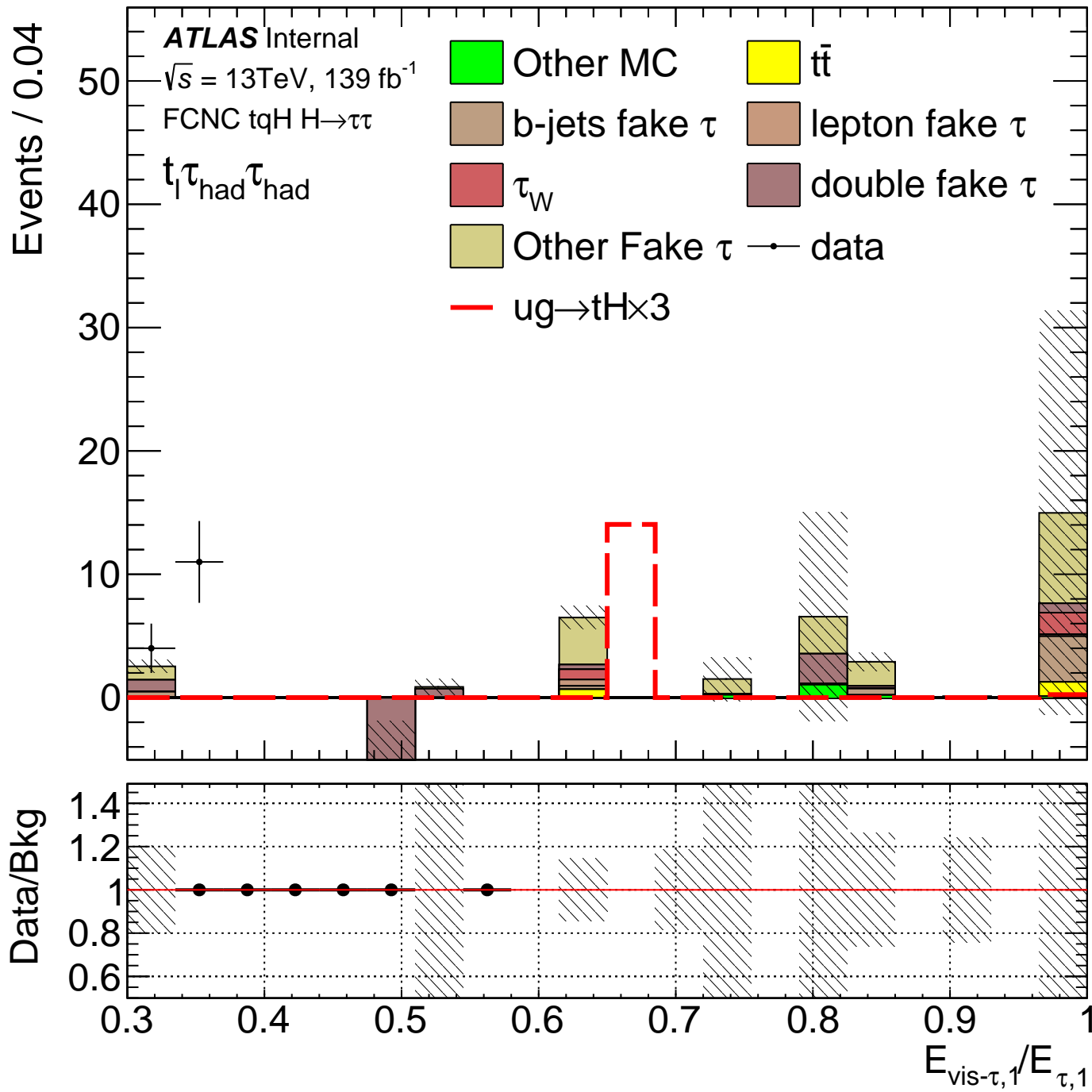
1

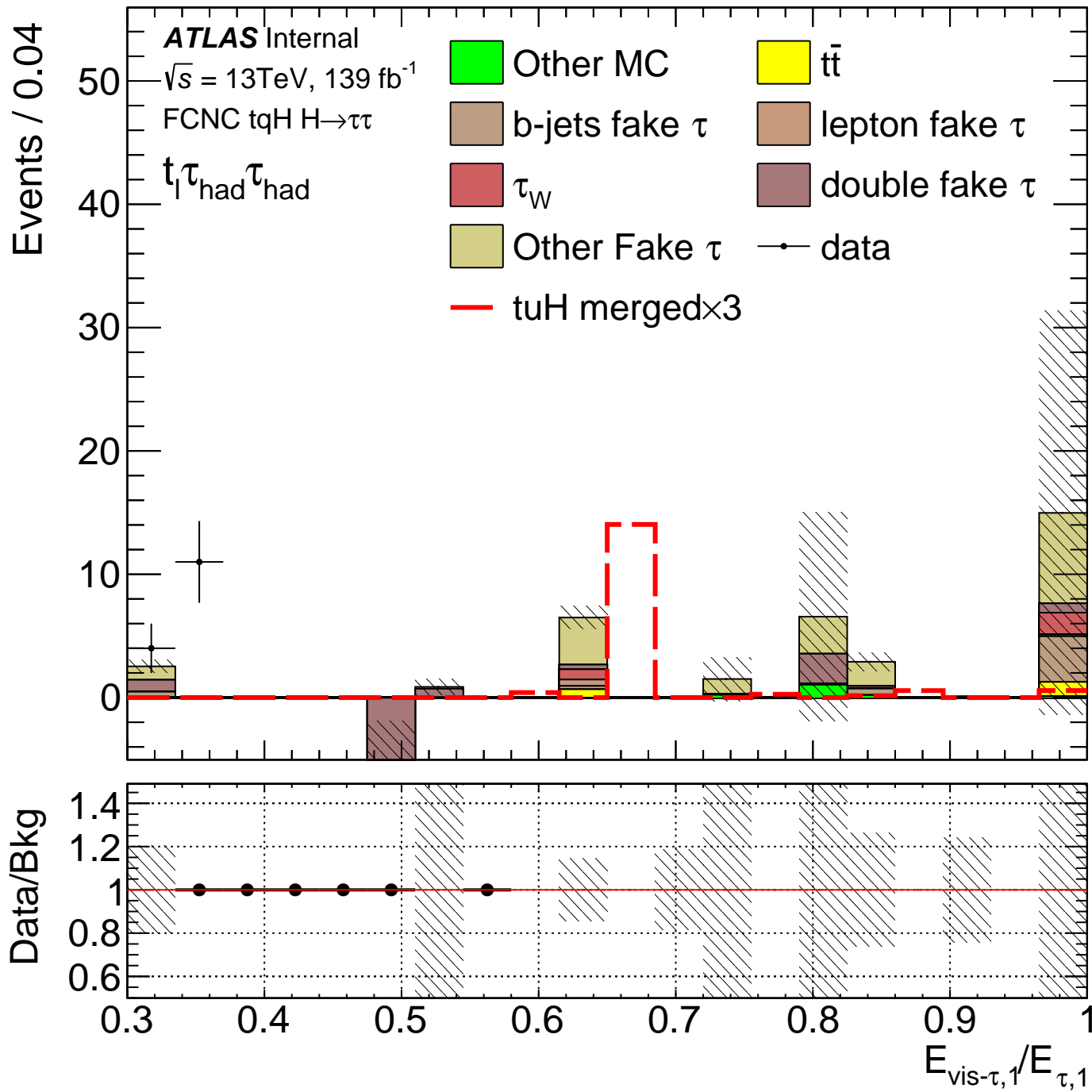
 $E_{\text{vis-}\tau,1}/E_{\tau,1}$ 







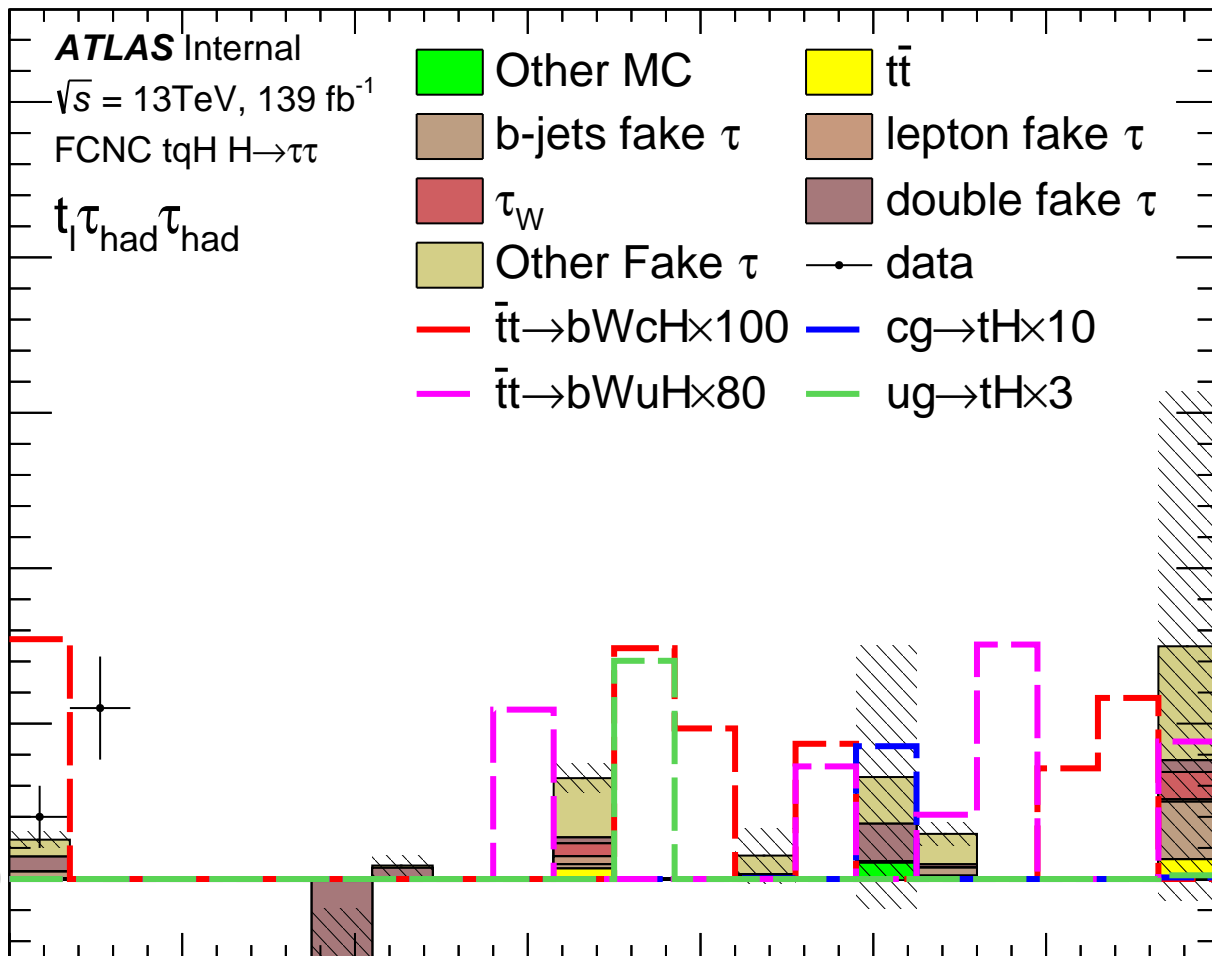
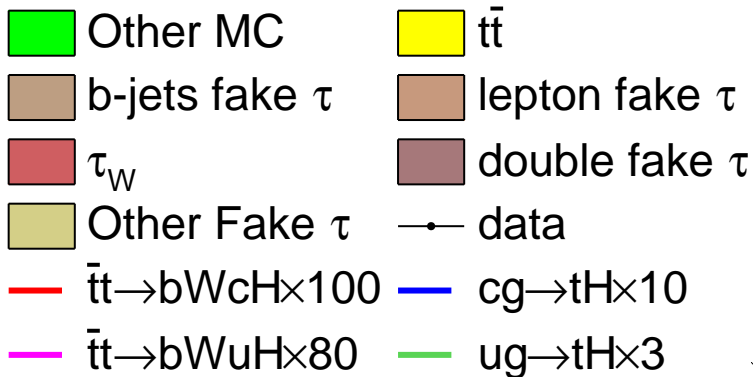




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FCNC $t\bar{q}H \rightarrow \tau\tau$

$t_l \tau_{\text{had}} \tau_{\text{had}}$



Data/Bkg

