

Events / 20.00 GeV

ATLAS Internal

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

FCNC tqH $H \rightarrow \tau\tau$

$t_h \tau_{\text{had}} \tau_{\text{had}} - 3j \text{ SS}($

SM Higgs

$Z \rightarrow \tau\tau$

$t\bar{t}$

only τ_{sub} real

data

Diboson

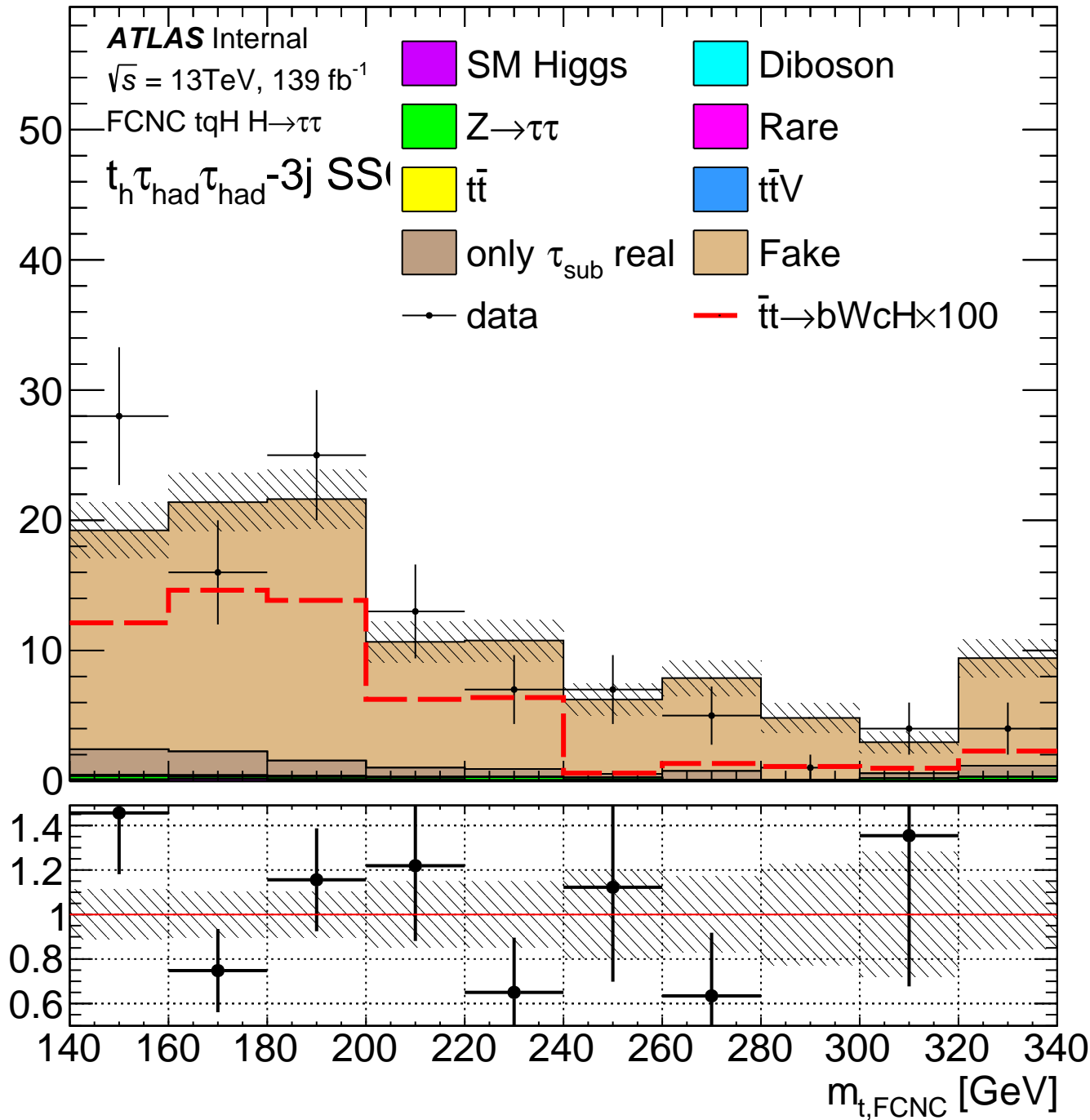
Rare

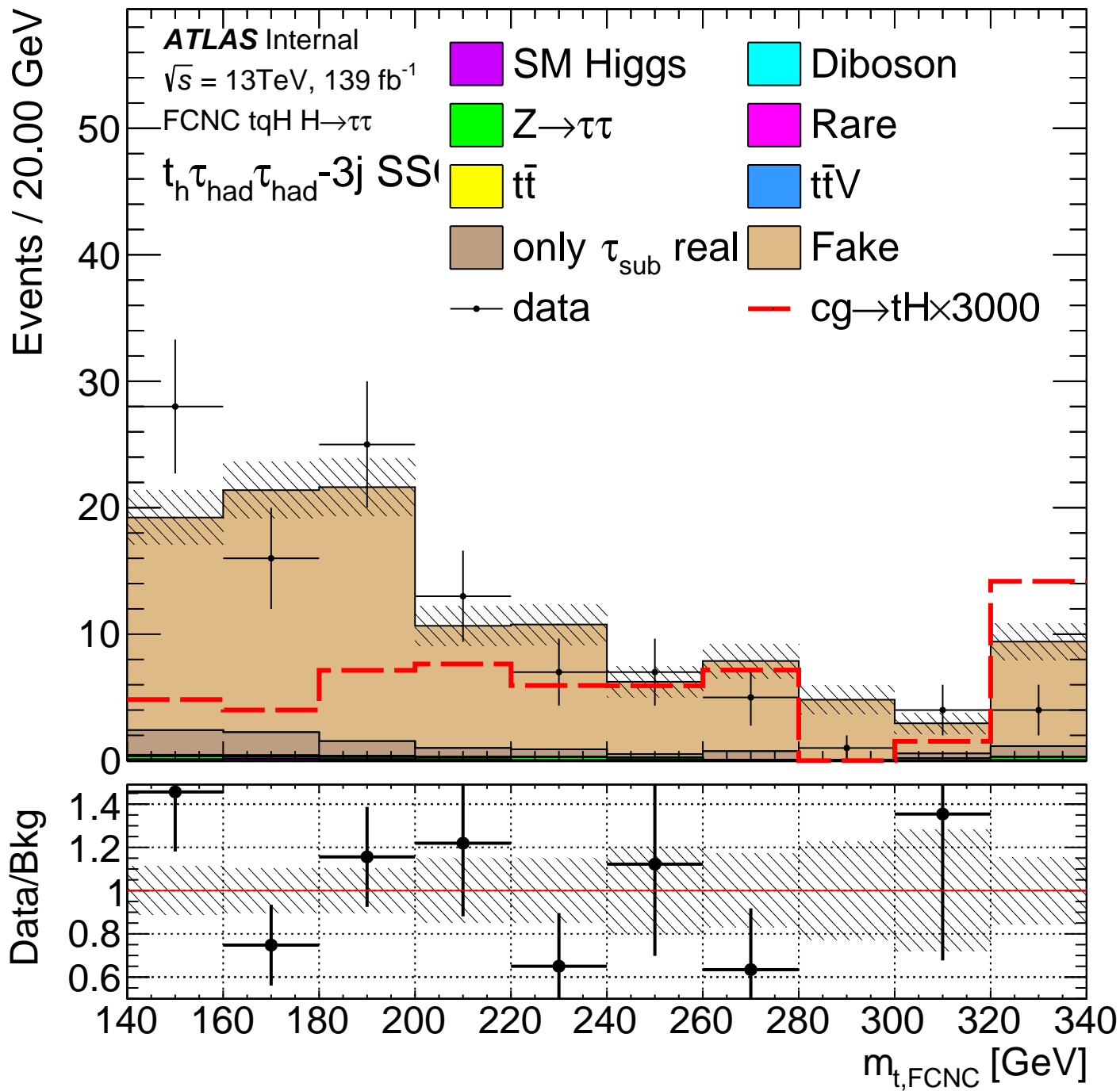
$t\bar{t}V$

Fake

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

Data/Bkg





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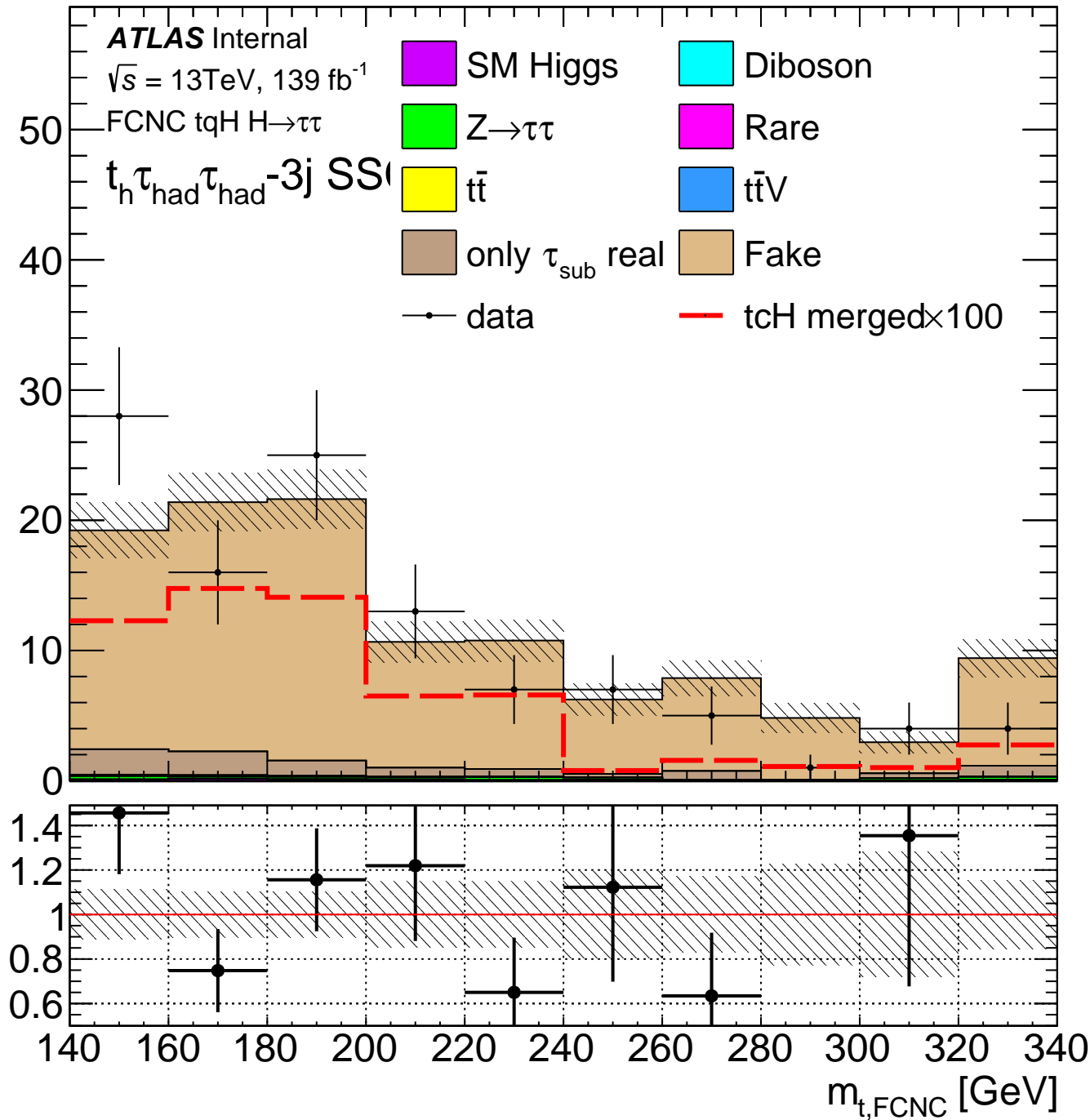
Rare

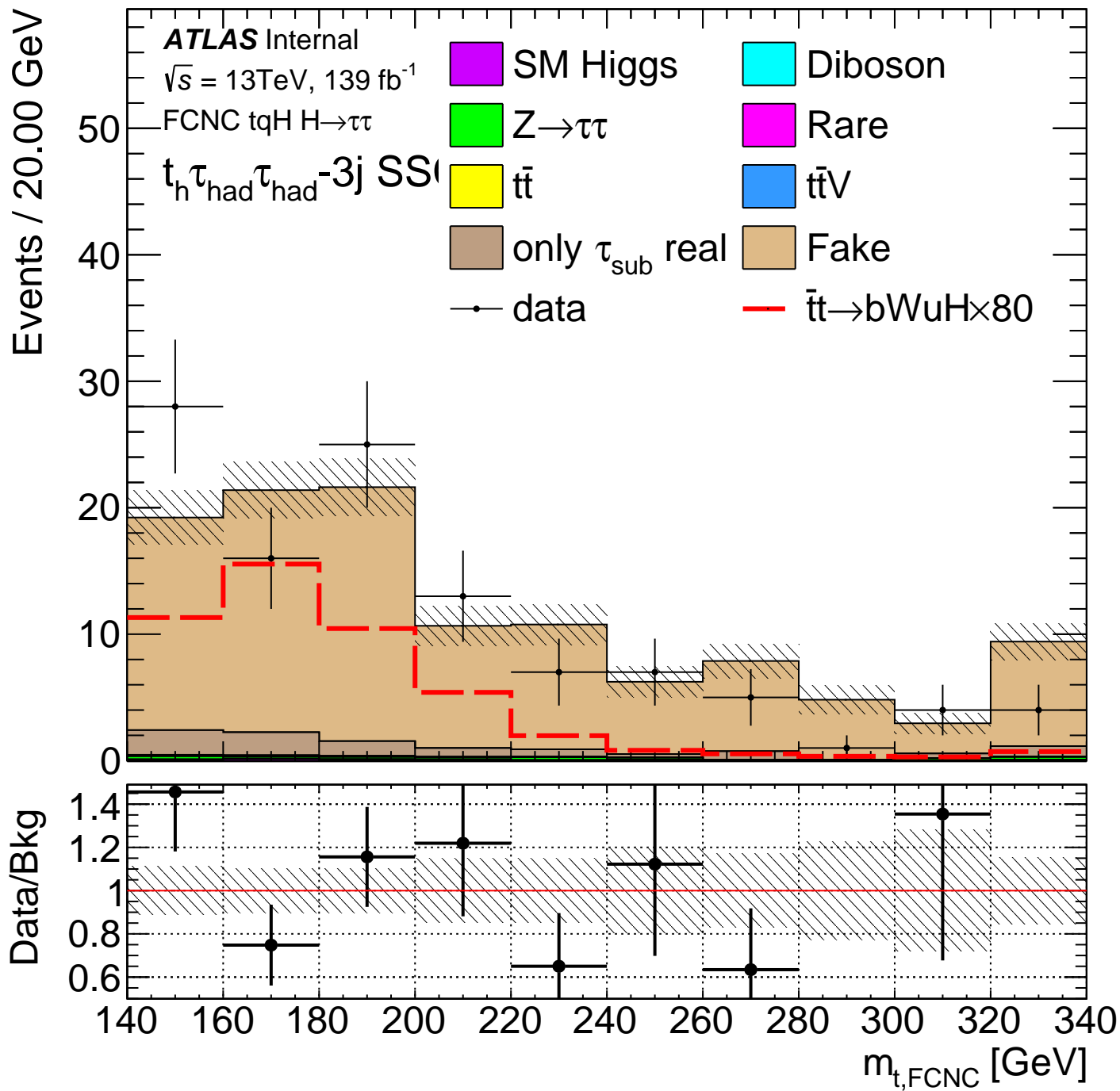
$t\bar{t}V$

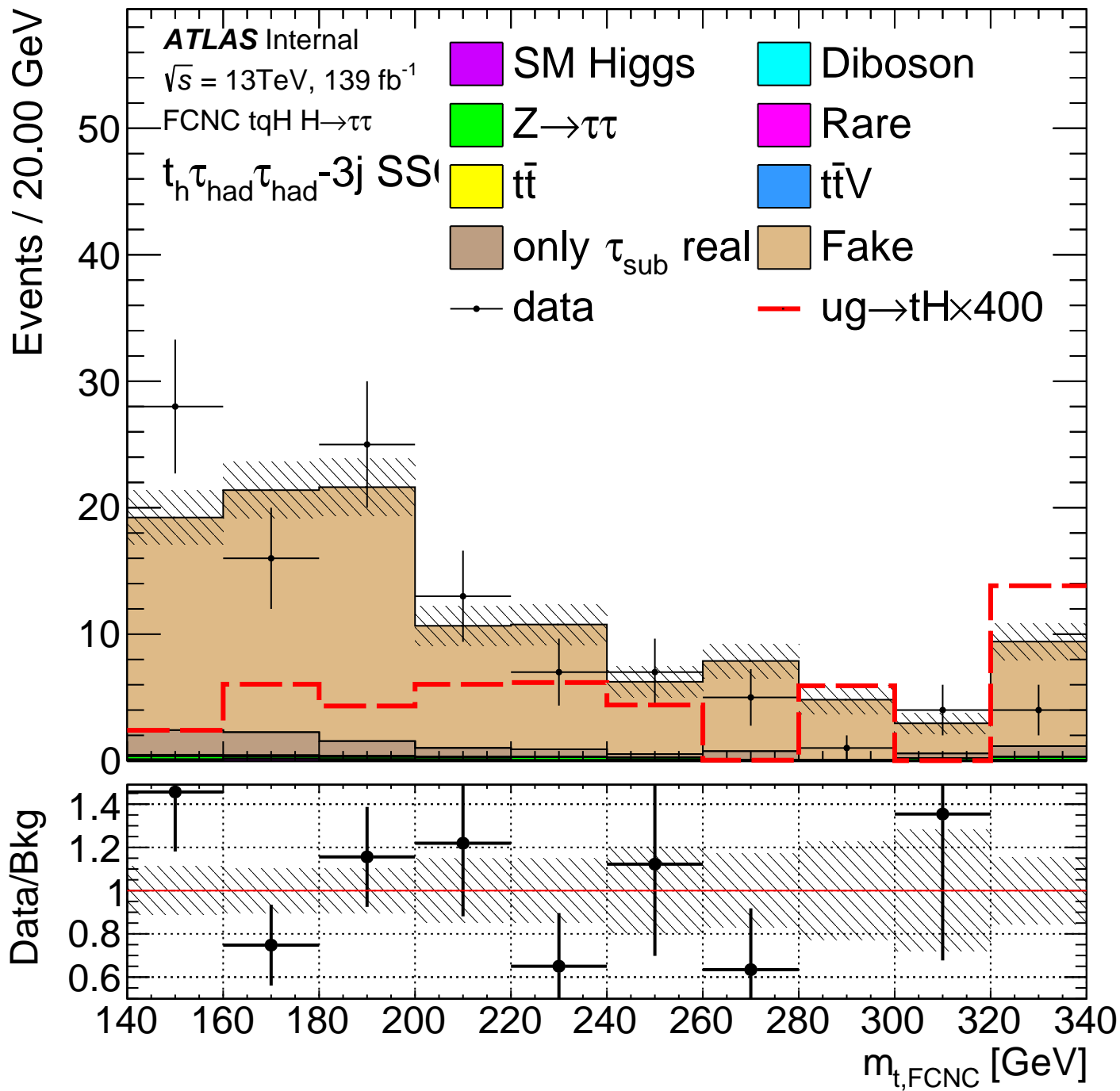
Fake

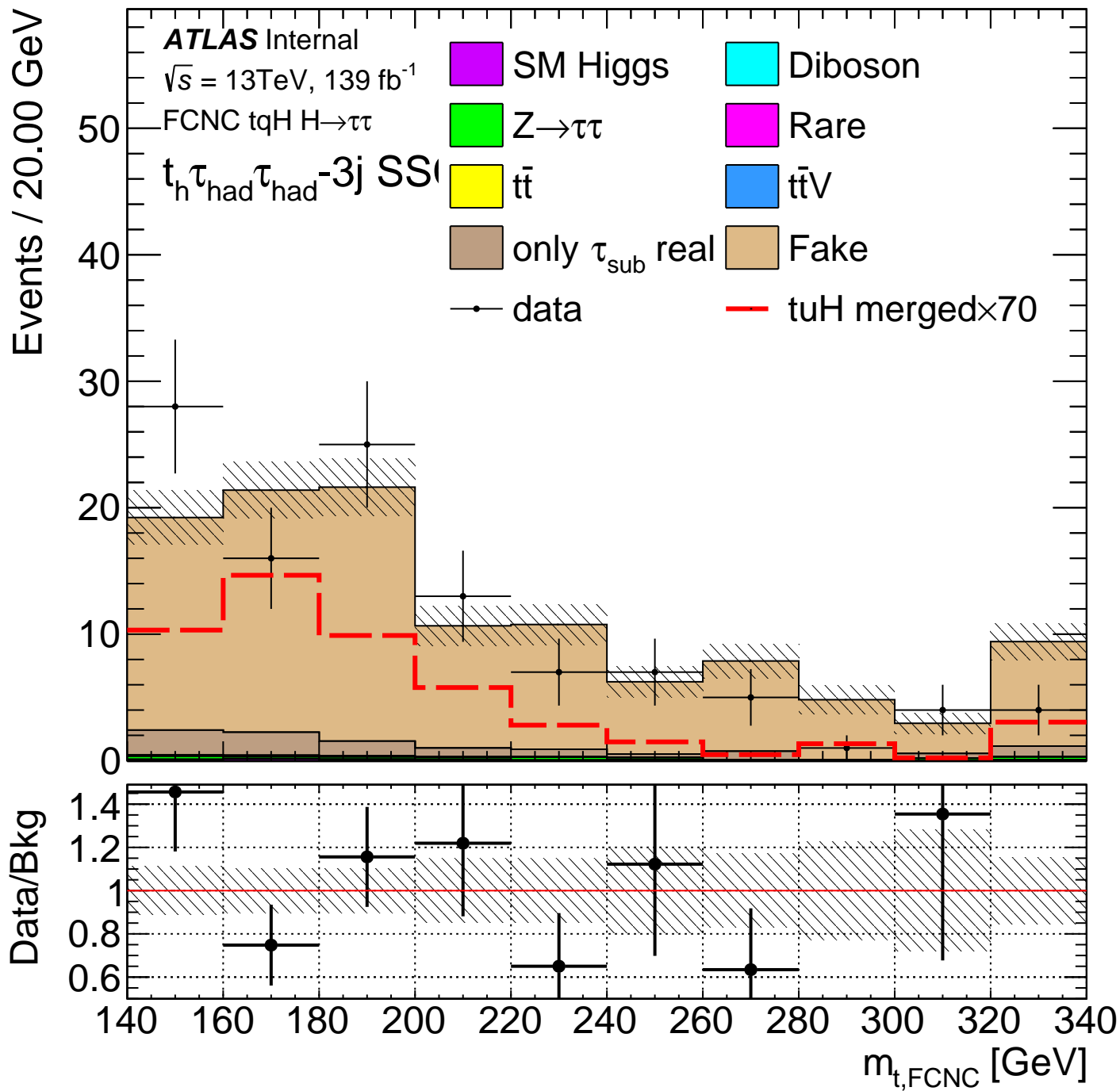
tcH merged $\times 100$

Data/Bkg









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SM Higgs

 $Z \rightarrow \tau\tau$ $t\bar{t}$ only τ_{sub} real

data

 $cg \rightarrow tH \times 3000$ $ug \rightarrow tH \times 400$

Diboson

Rare

 $t\bar{t}V$

Fake

 $t\bar{t} \rightarrow bWcH \times 100$ $t\bar{t} \rightarrow bWuH \times 80$

50

40

30

20

10

0

Data/Bkg

1.4

1.2

1.0

0.8

0.6

140 160 180 200 220 240 260 280 300 320 340

 $m_{t,\text{FCNC}} [\text{GeV}]$ 