

Events / 5.00 GeV

**ATLAS** Internal

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

FCNC tqH  $H \rightarrow \tau\tau$

reg1mtau1ltau

SM Higgs

$Z \rightarrow \tau\tau$

$t\bar{t}$

only  $\tau_{\text{sub}}$  real

$t\bar{t} \rightarrow bWcH \times 60$

Diboson

Rare

$t\bar{t}V$

data

50

40

30

20

10

0

Data/Bkg

1.4

1.2

1.0

0.8

0.6

100

105

110

115

120

125

130

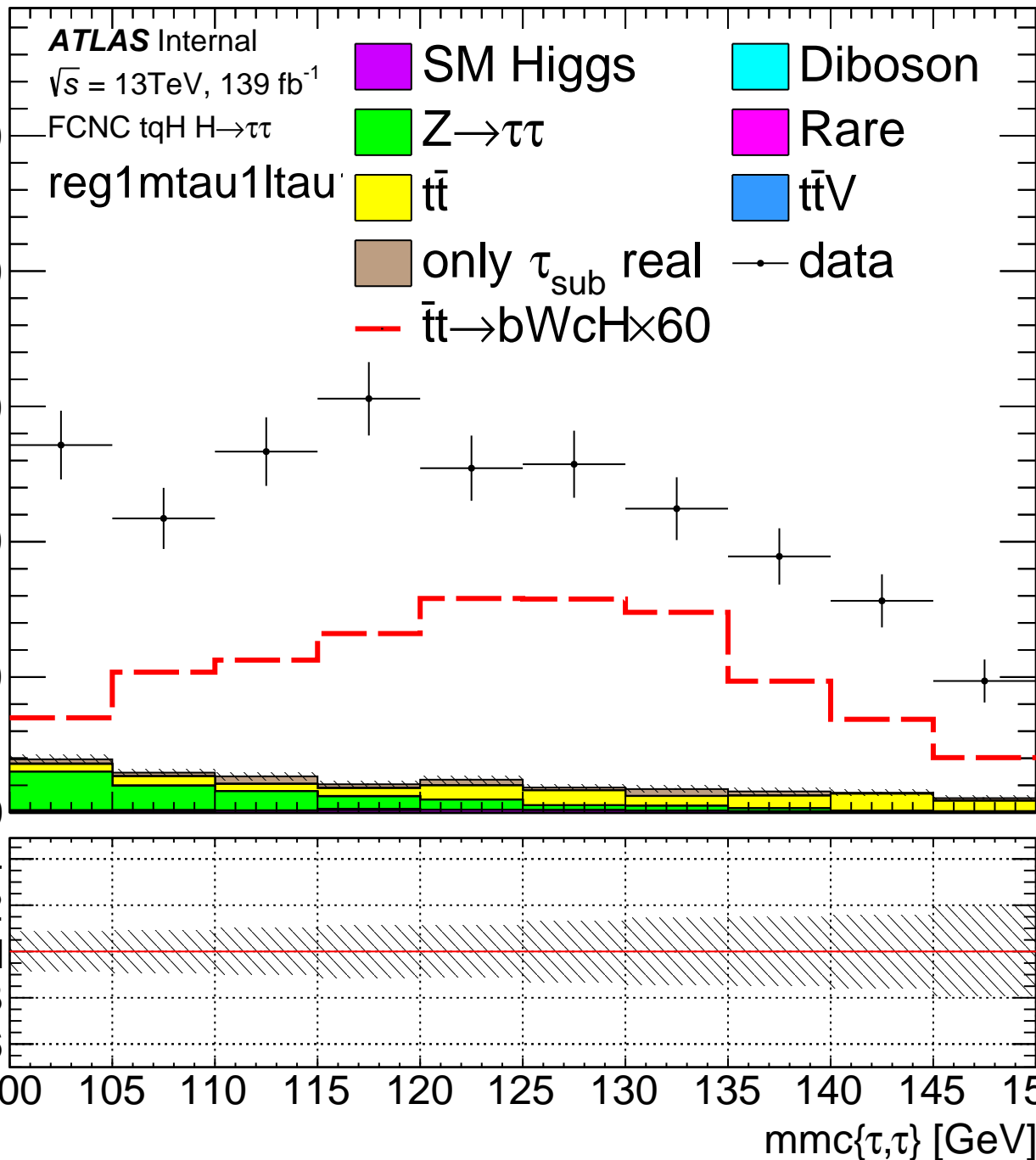
135

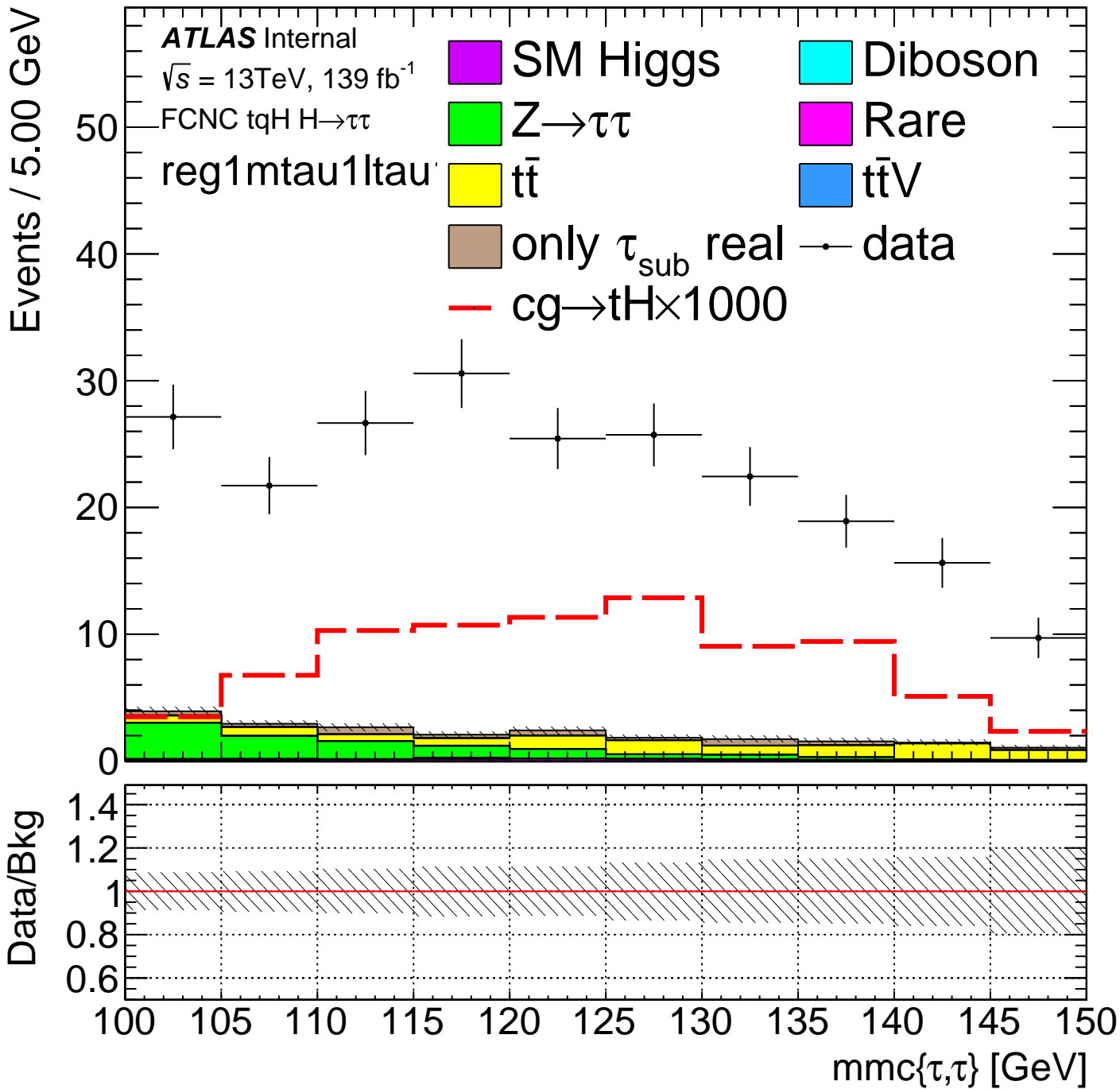
140

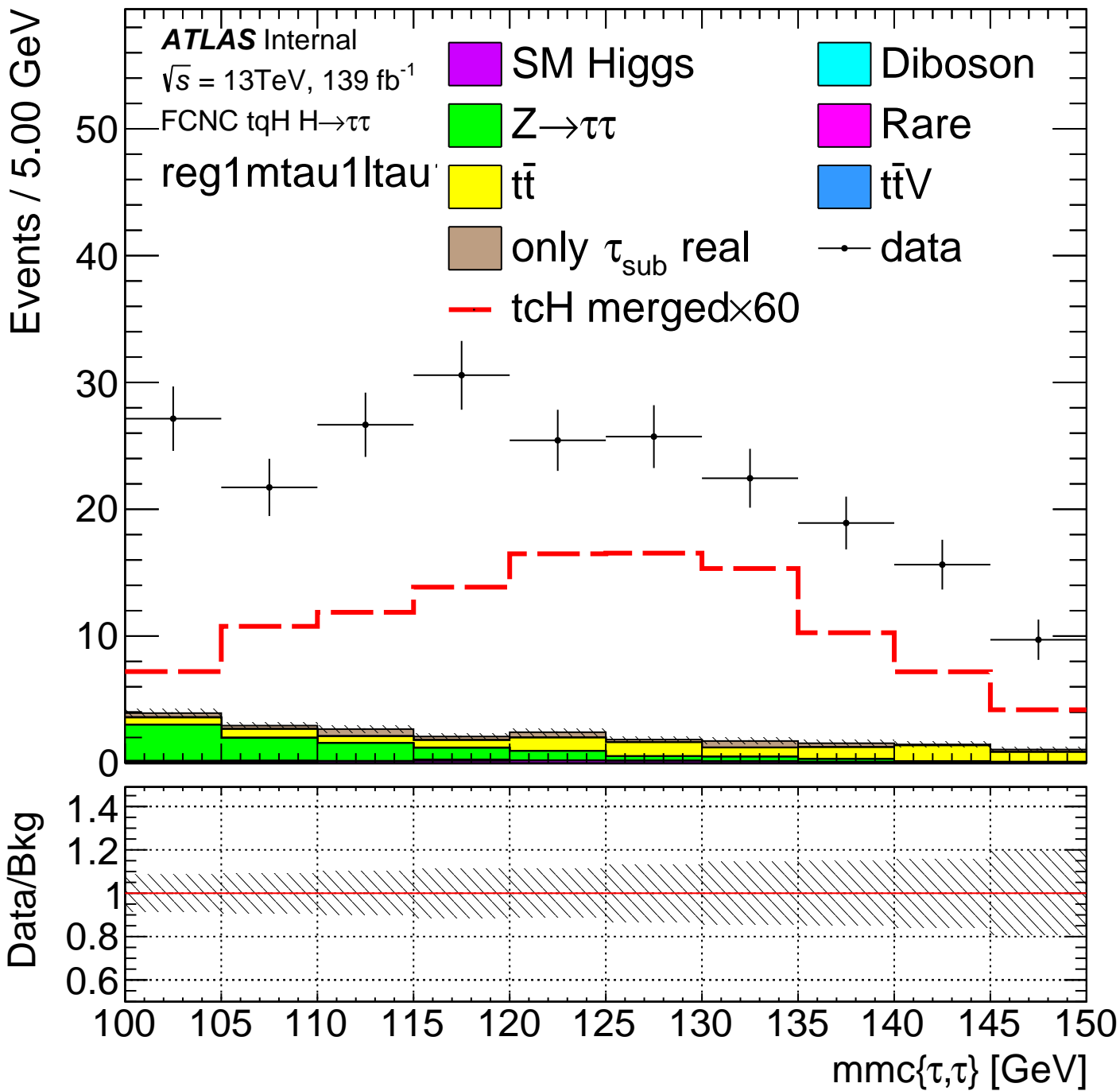
145

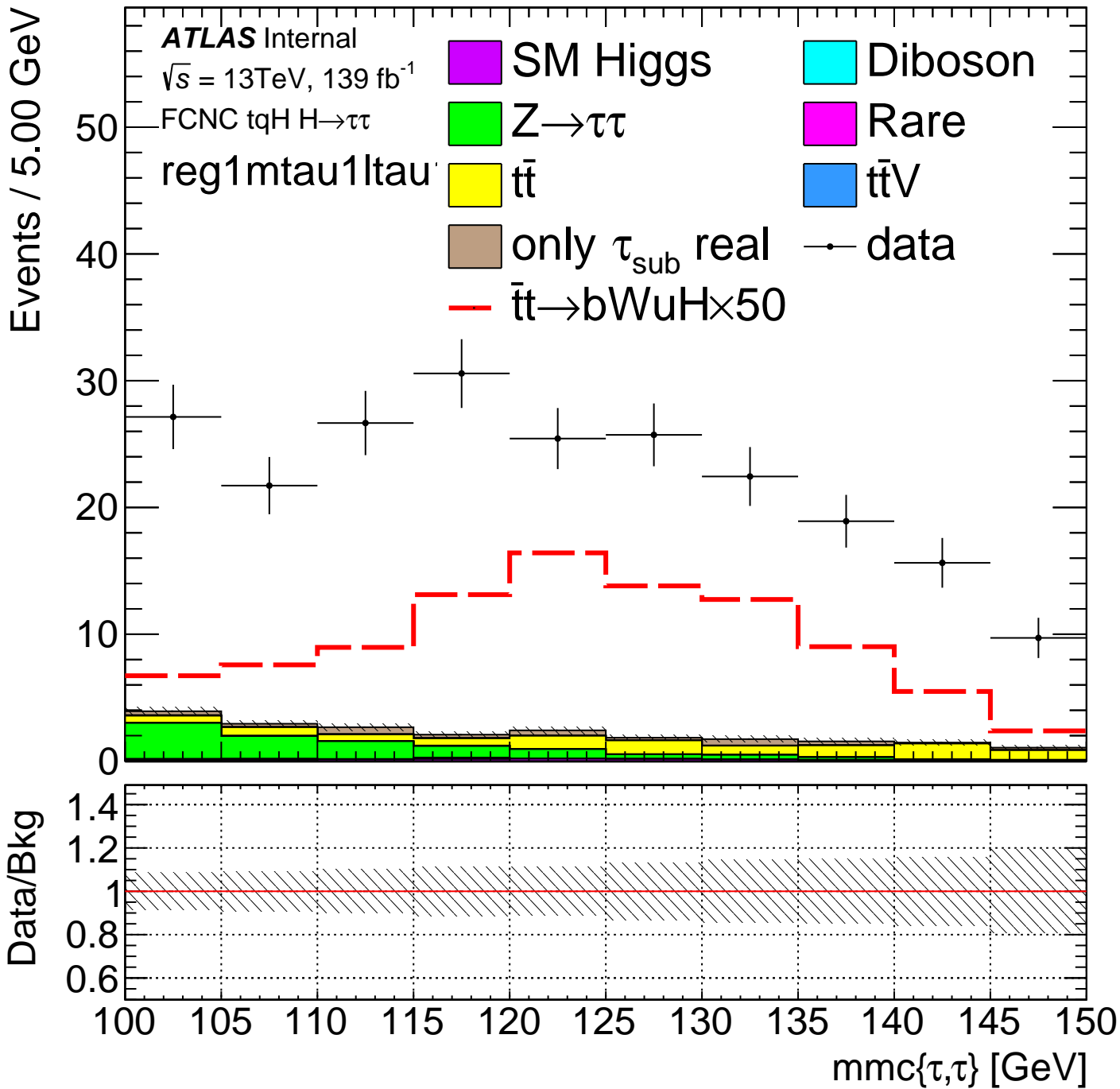
150

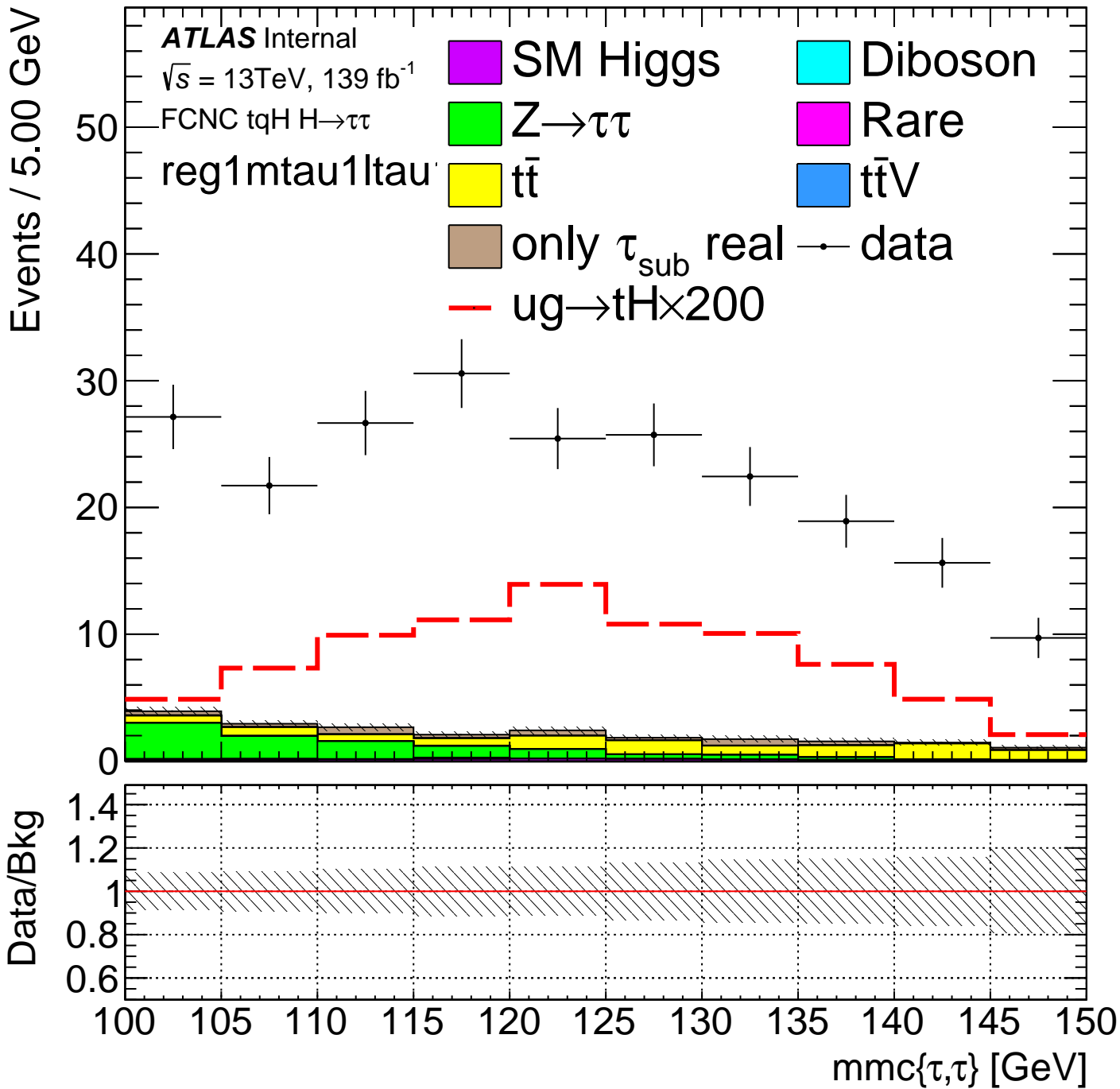
$\text{mmc}\{\tau, \tau\} [\text{GeV}]$











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SM Higgs

$Z \rightarrow \tau\tau$

$t\bar{t}$

only  $\tau_{\text{sub}}$  real

tuH merged $\times 40$

Diboson

Rare

$t\bar{t}V$

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$\text{mmc}\{\tau, \tau\} [\text{GeV}]$

