

Events / 20.00 GeV

 $\times 10^3$ **ATLAS** Internal $\sqrt{s} = 13\text{TeV}, 140\text{fb}^{-1}$ FCNC tqH $H \rightarrow \tau\tau$ TTH $\tau_{\text{lep}}\tau_{\text{had}}$

SM Higgs

 $Z \rightarrow \tau\tau$ $t\bar{t}$ b-jets fake τ τ_W QCD Fake μ

—•— data

Diboson

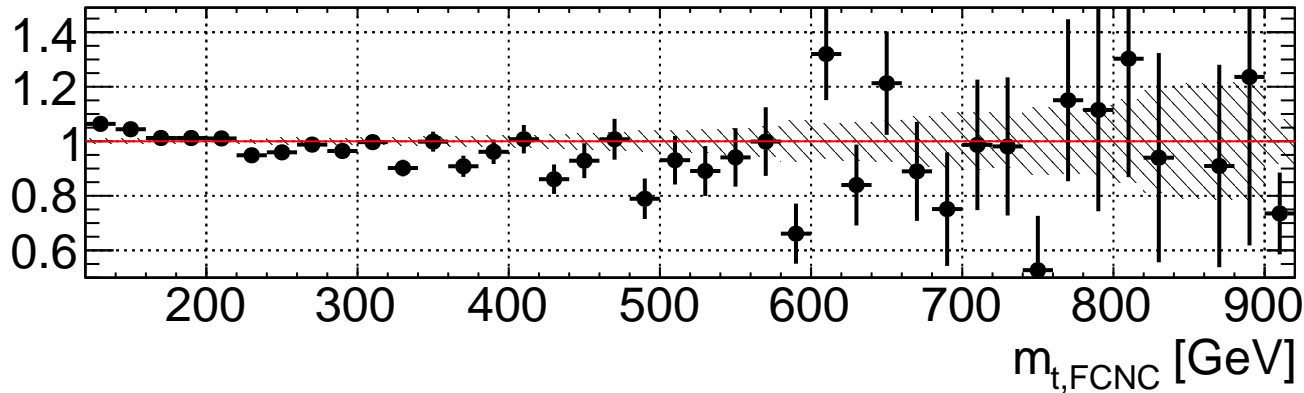
Rare

 $t\bar{t}V$ lepton fake τ Other Fake τ

QCD Fake e

— cg \rightarrow tH \times 2000

Data/Bkg



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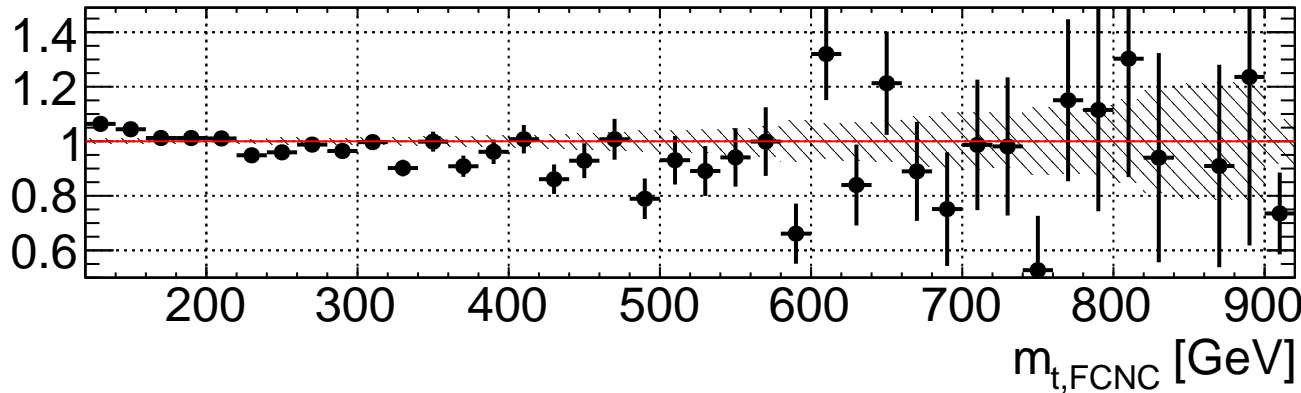
—•— data

Diboson

Rare

 $t\bar{t}V$ lepton fake τ Other Fake τ QCD Fake e — tcH merged $\times 30$

Data/Bkg



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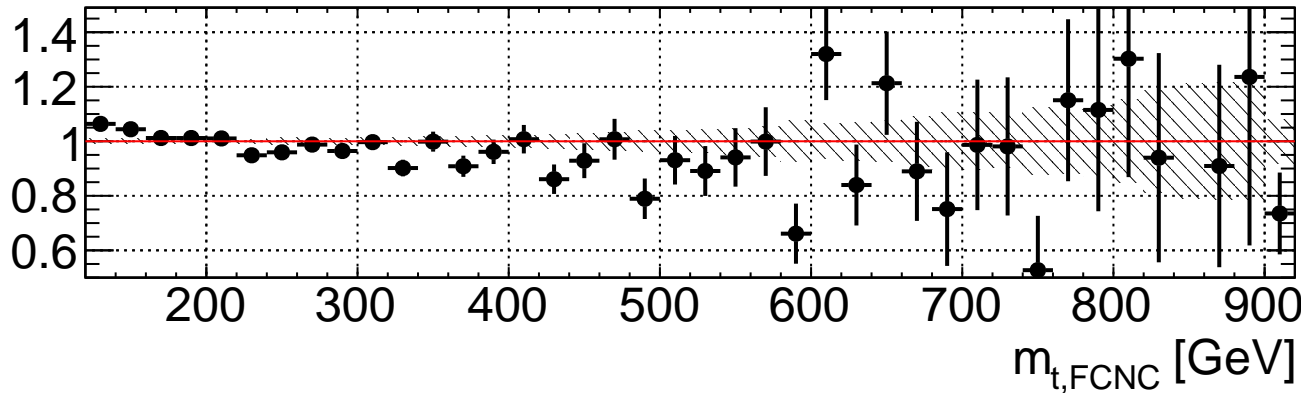
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 $t\bar{t}V$ lepton fake τ Other Fake τ

QCD Fake e

— $t\bar{t} \rightarrow bWuH \times 30$

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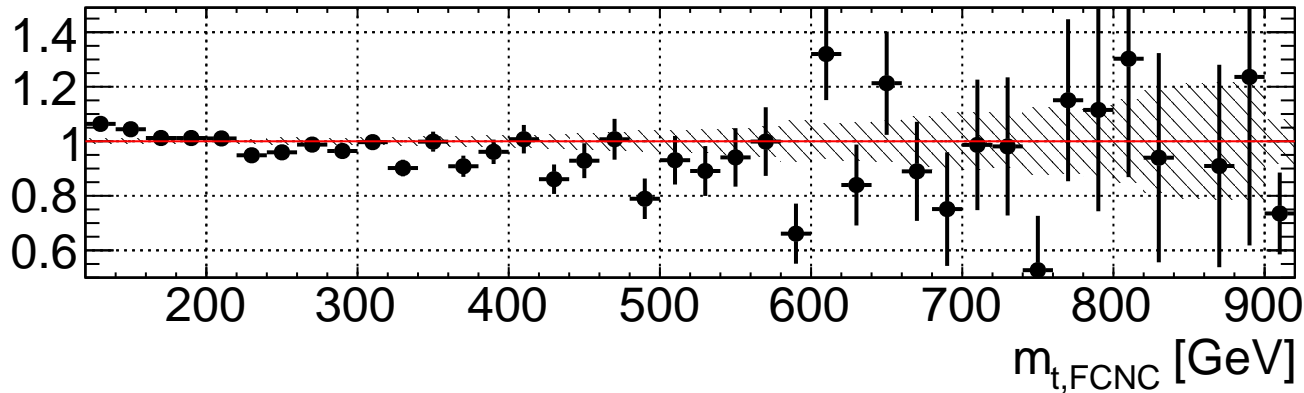
Rare

 $t\bar{t}V$ lepton fake τ Other Fake τ

QCD Fake e

— $ug \rightarrow tH \times 500$

Data/Bkg



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—•— data

Diboson

Rare

 $t\bar{t}V$ lepton fake τ Other Fake τ

QCD Fake e

— tuH merged $\times 30$

Data/Bkg

