

Events / 0.20

ATLAS Internal $\sqrt{s} = 13\text{TeV}, 140\text{ fb}^{-1}$ FCNC tqH $H \rightarrow \tau\tau$ TTH $\tau_{\text{had}}\tau_{\text{had}}$ $S\bar{S}$

SM Higgs

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

—•— data

Diboson

Rare

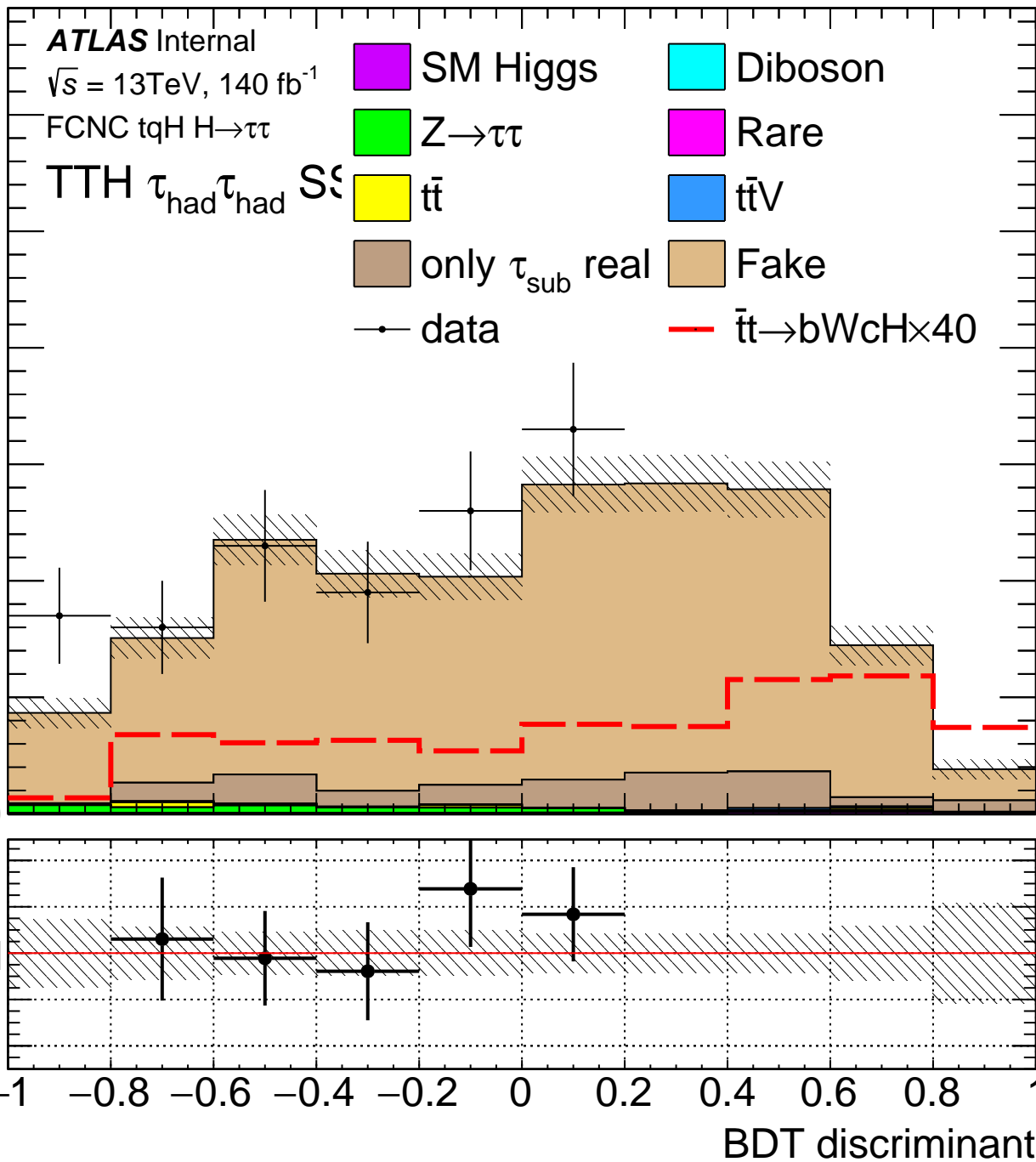
 $t\bar{t}V$

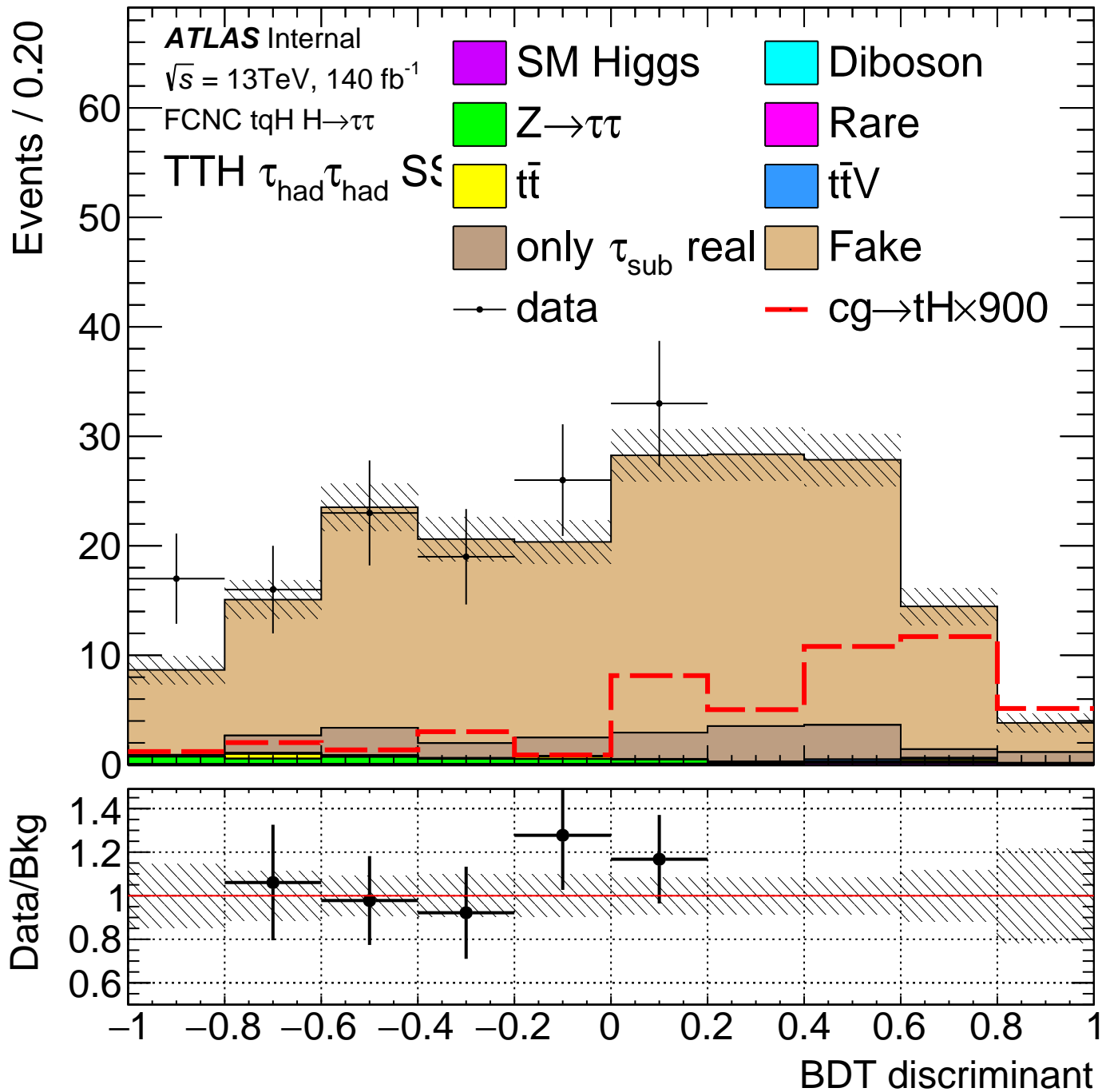
Fake

— $t\bar{t} \rightarrow bWcH \times 40$

Data/Bkg

BDT discriminant





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Rare

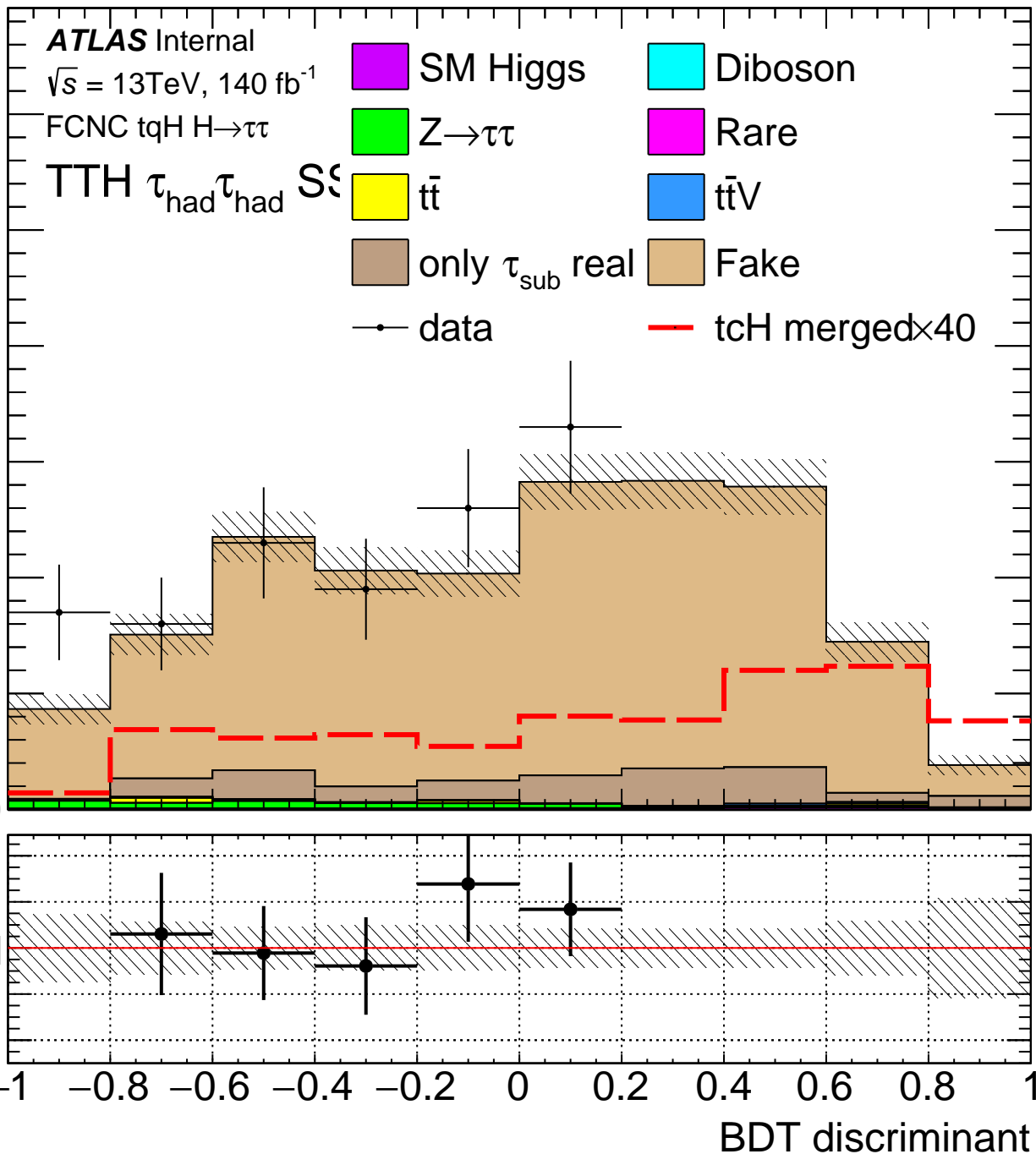
 $t\bar{t}V$

Fake

tcH merged $\times 40$

Data/Bkg

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Rare

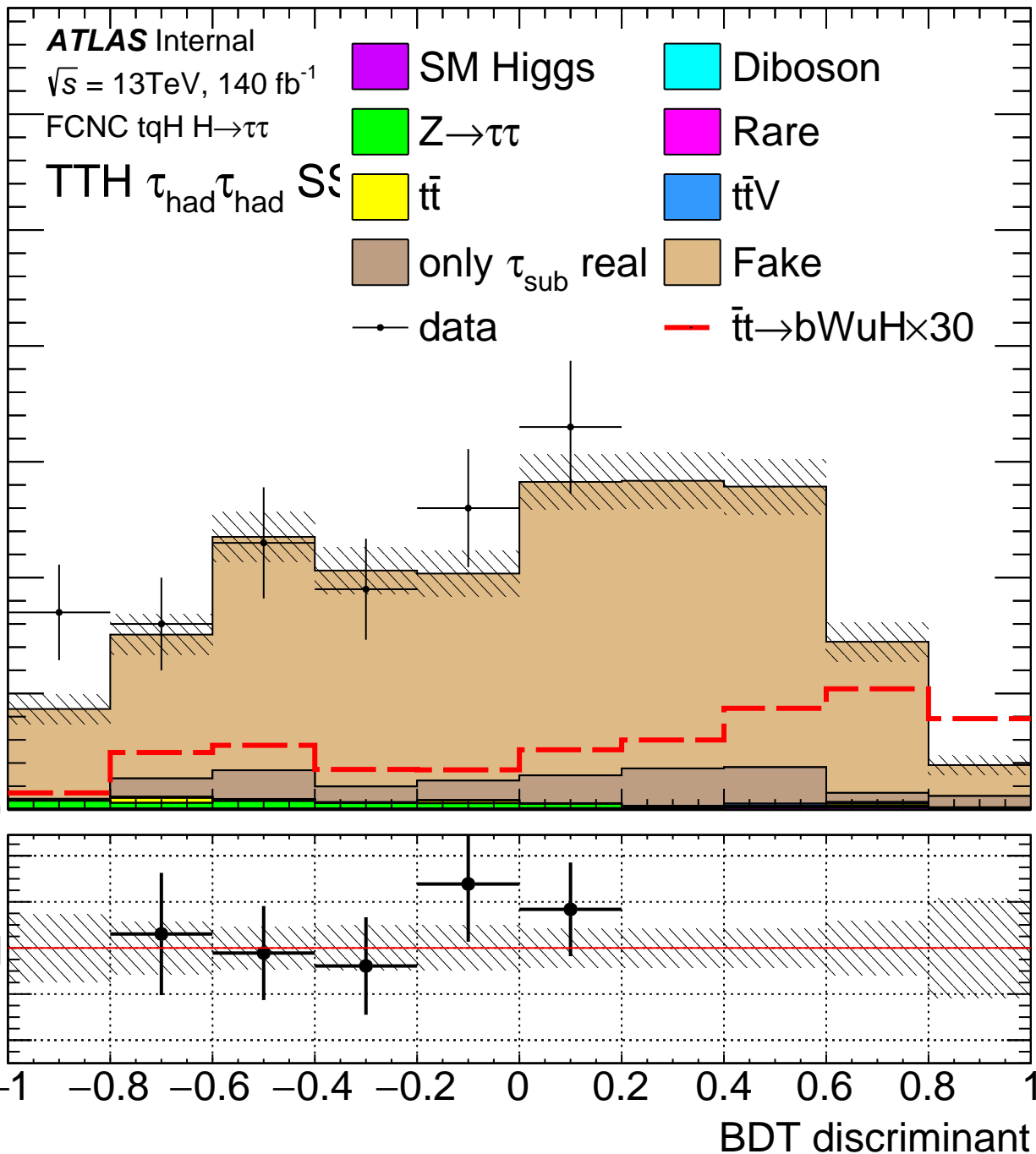
 $t\bar{t}V$

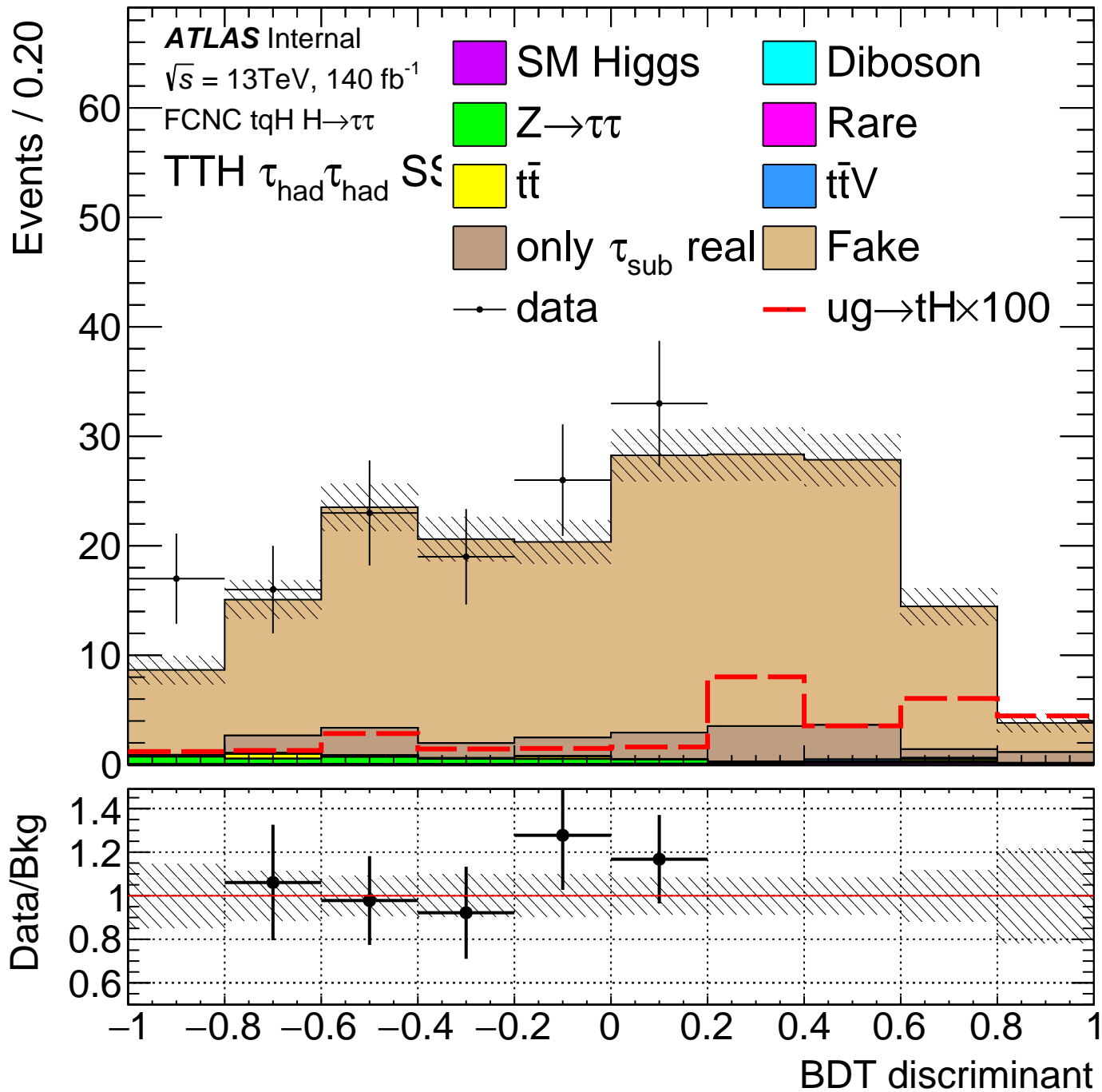
Fake

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

Data/Bkg

BDT discriminant





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 $t\bar{t}V$

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tuH merged $\times 30$

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