

Events / 0.20

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

SM Higgs

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

data

Diboson

Rare

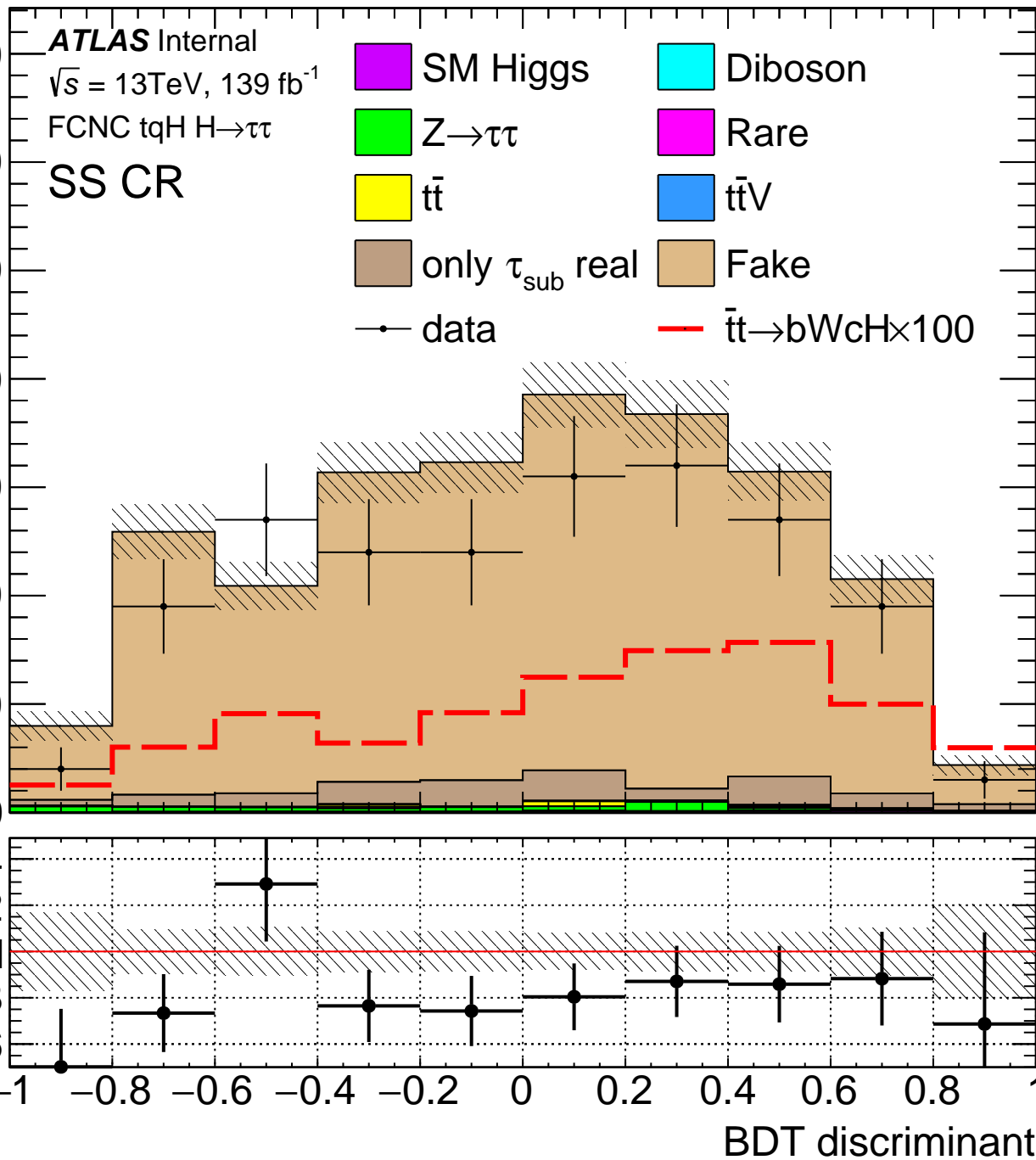
 $t\bar{t}V$

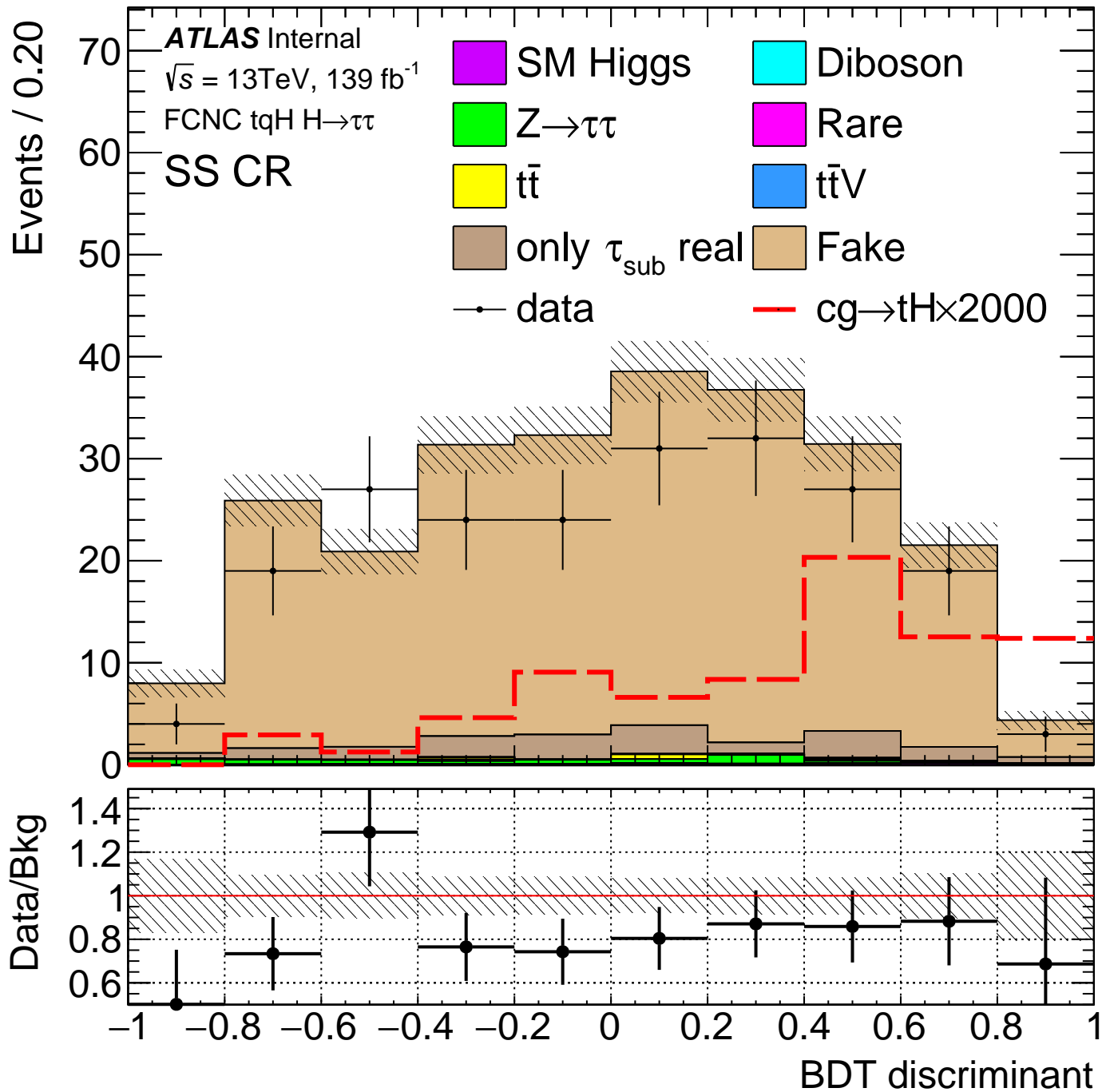
Fake

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

Data/Bkg

BDT discriminant





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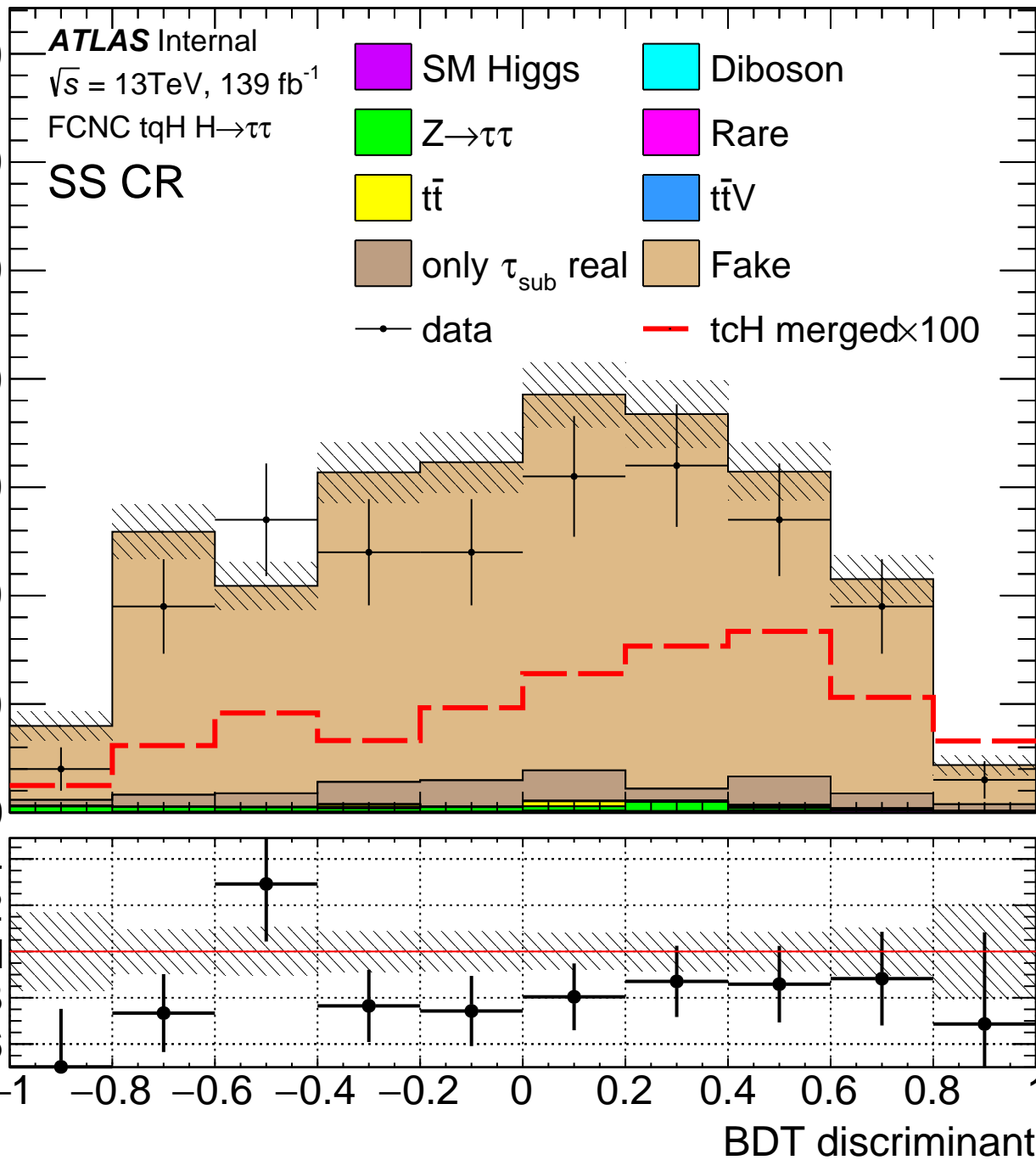
 $t\bar{t}V$

Fake

tcH merged $\times 100$

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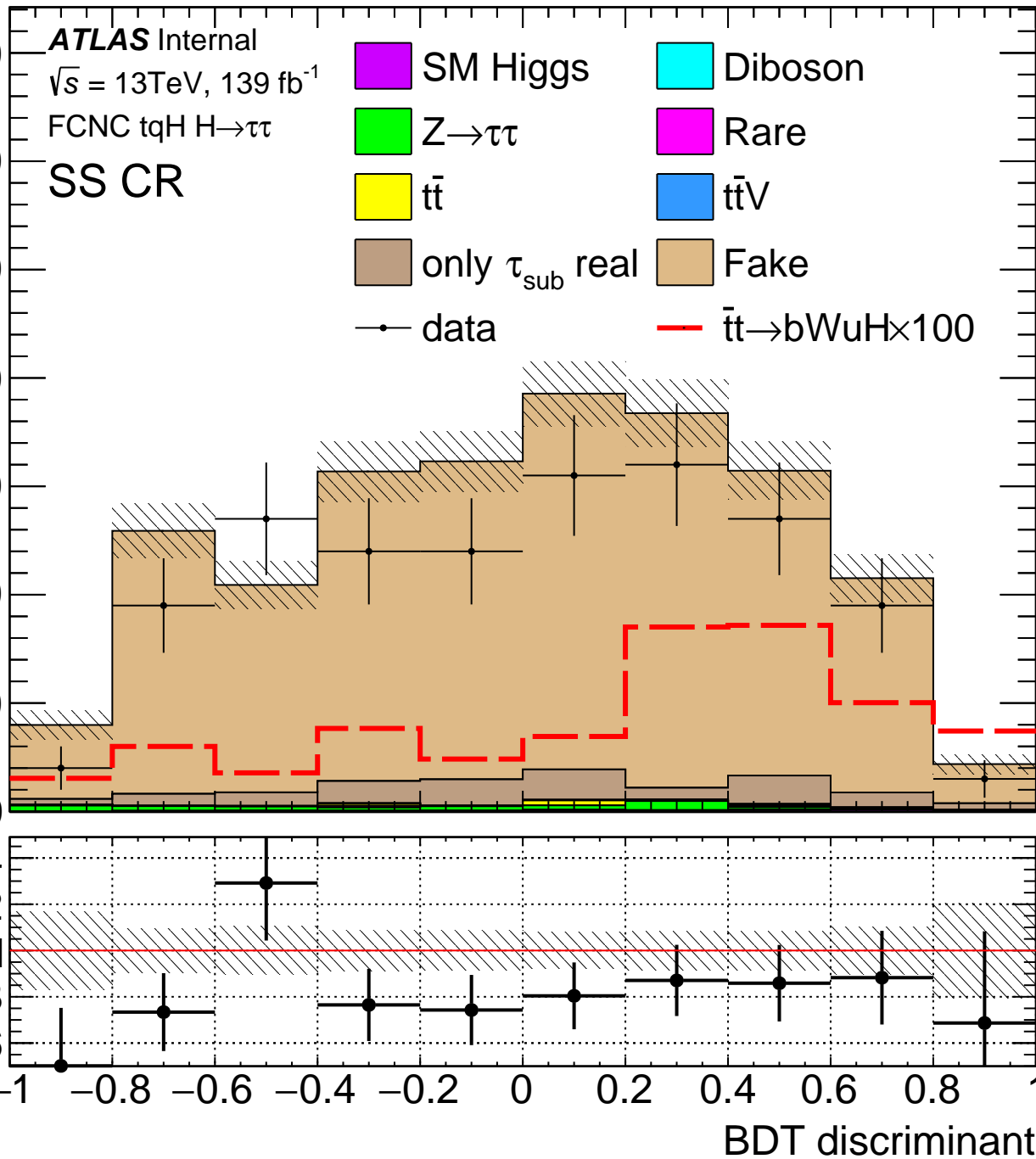
 $t\bar{t}V$

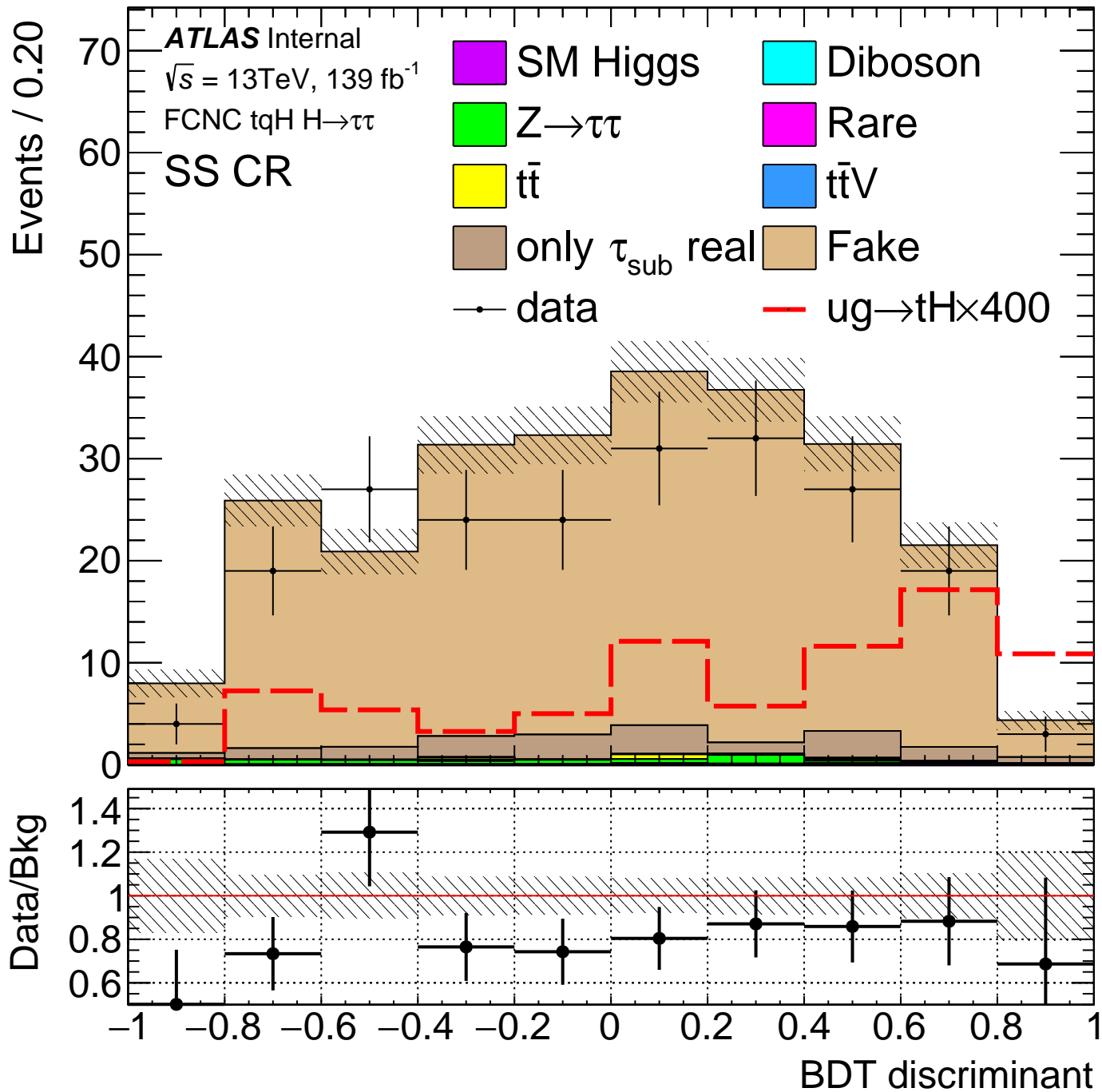
Fake

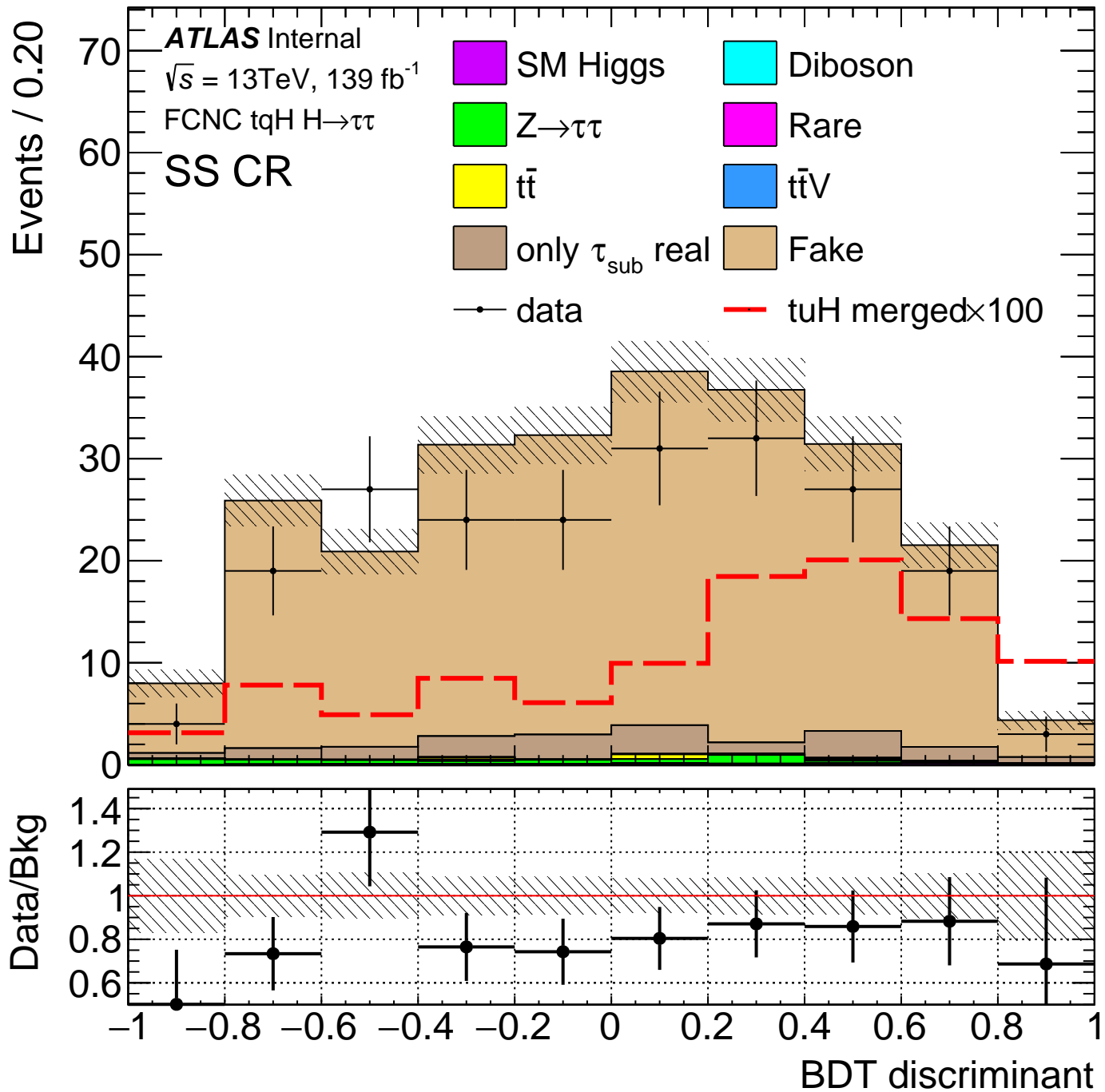
 $t\bar{t} \rightarrow bWuH \times 100$

Data/Bkg

BDT discriminant







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data

 $cg \rightarrow tH \times 2000$ $ug \rightarrow tH \times 400$

Diboson

Rare

 $t\bar{t}V$

Fake

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

Data/Bkg

BDT discriminant

