

Events / 0.20

**ATLAS** Internal  
 $\sqrt{s} = 13\text{TeV}, 80\text{ fb}^{-1}$   
FCNC  $t\bar{q}H \rightarrow \tau\tau$

$t_l \tau_{\text{had}} \tau_{\text{had}}$

Other MC

b-jets fake  $\tau$

$\tau_W$

Other Fake  $\tau$

$\bar{t}t \rightarrow bWcH \times 6$

$t\bar{t}$

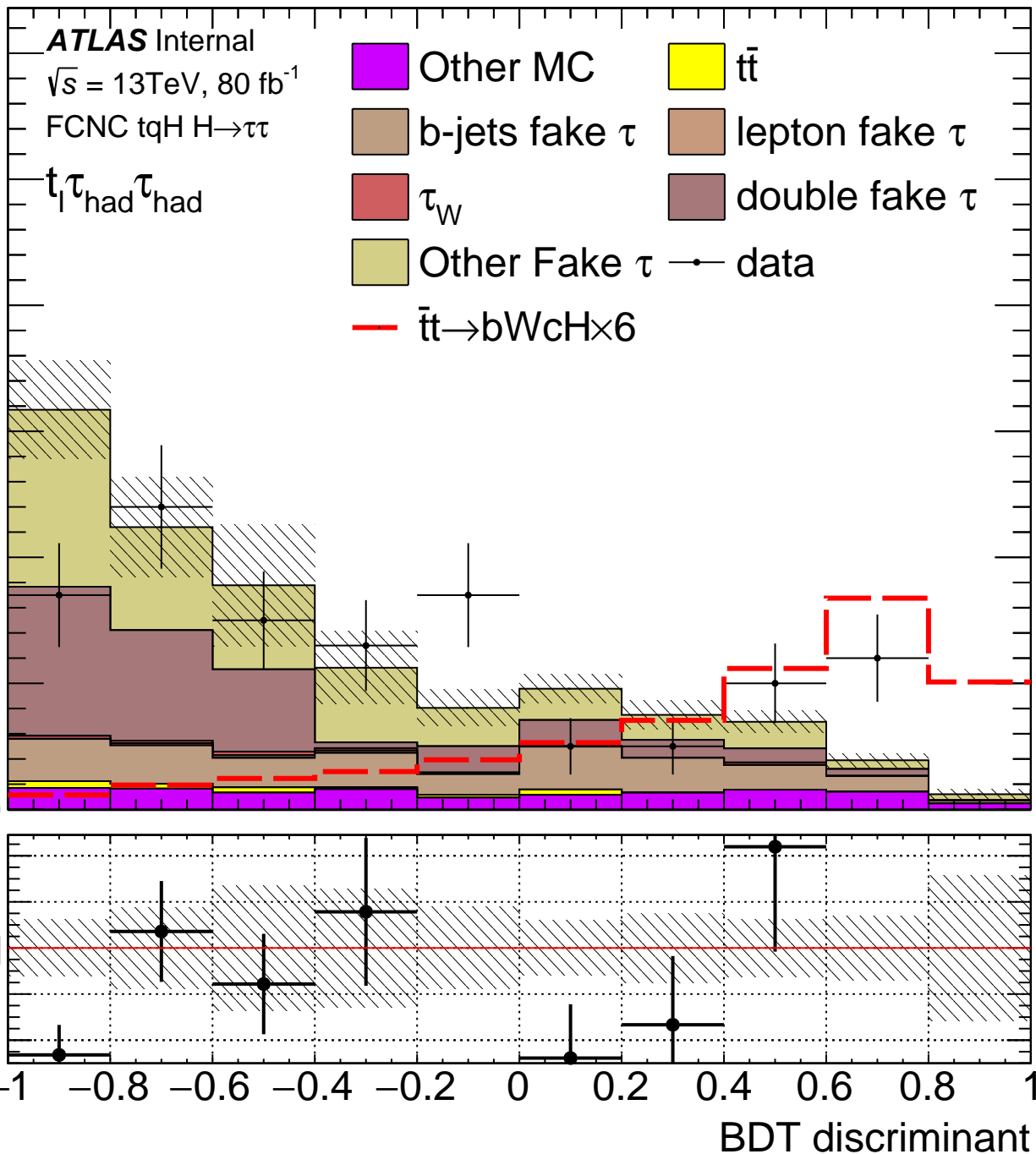
lepton fake  $\tau$

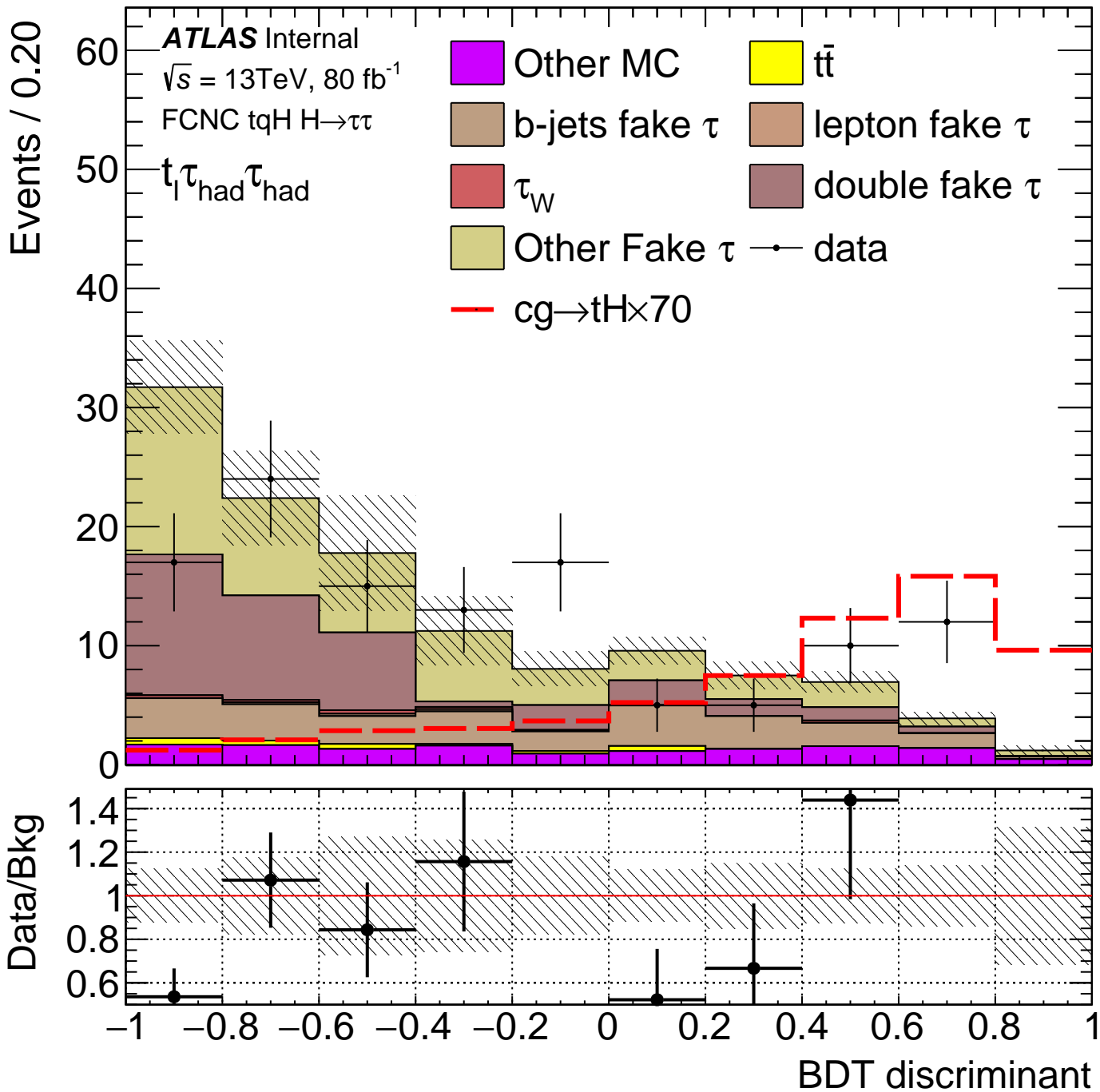
double fake  $\tau$

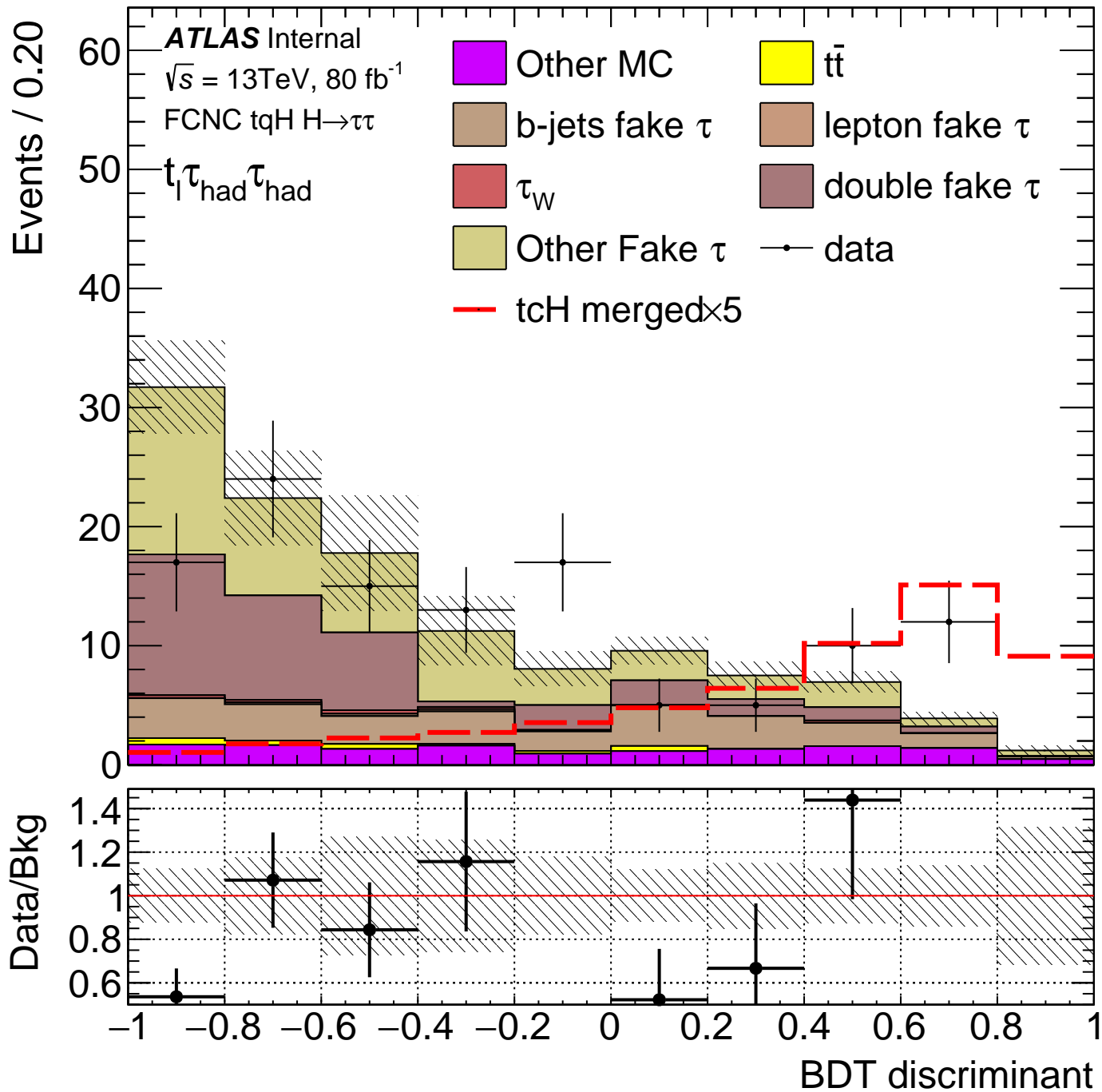
data

Data/Bkg

BDT discriminant







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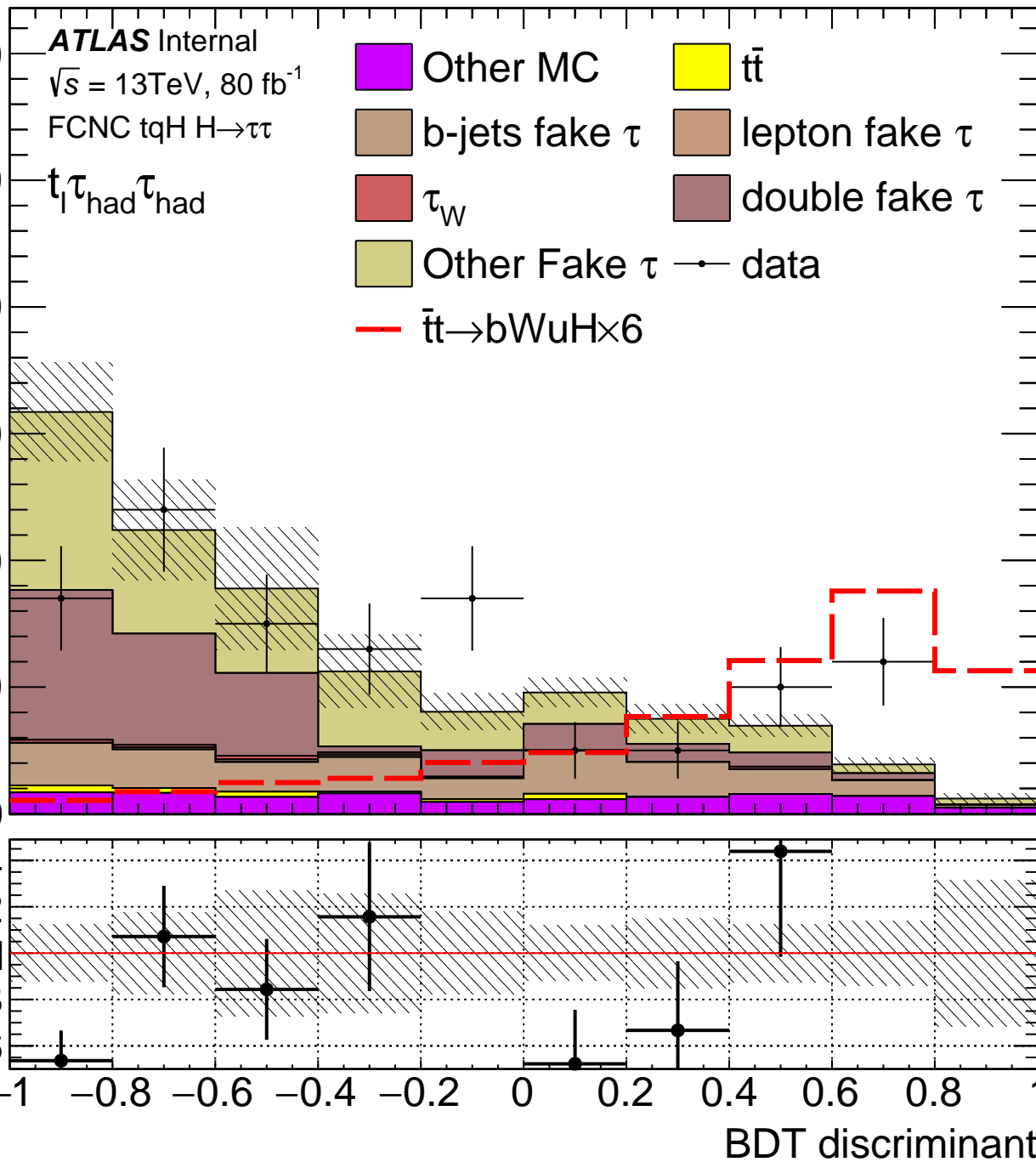
lepton fake  $\tau$

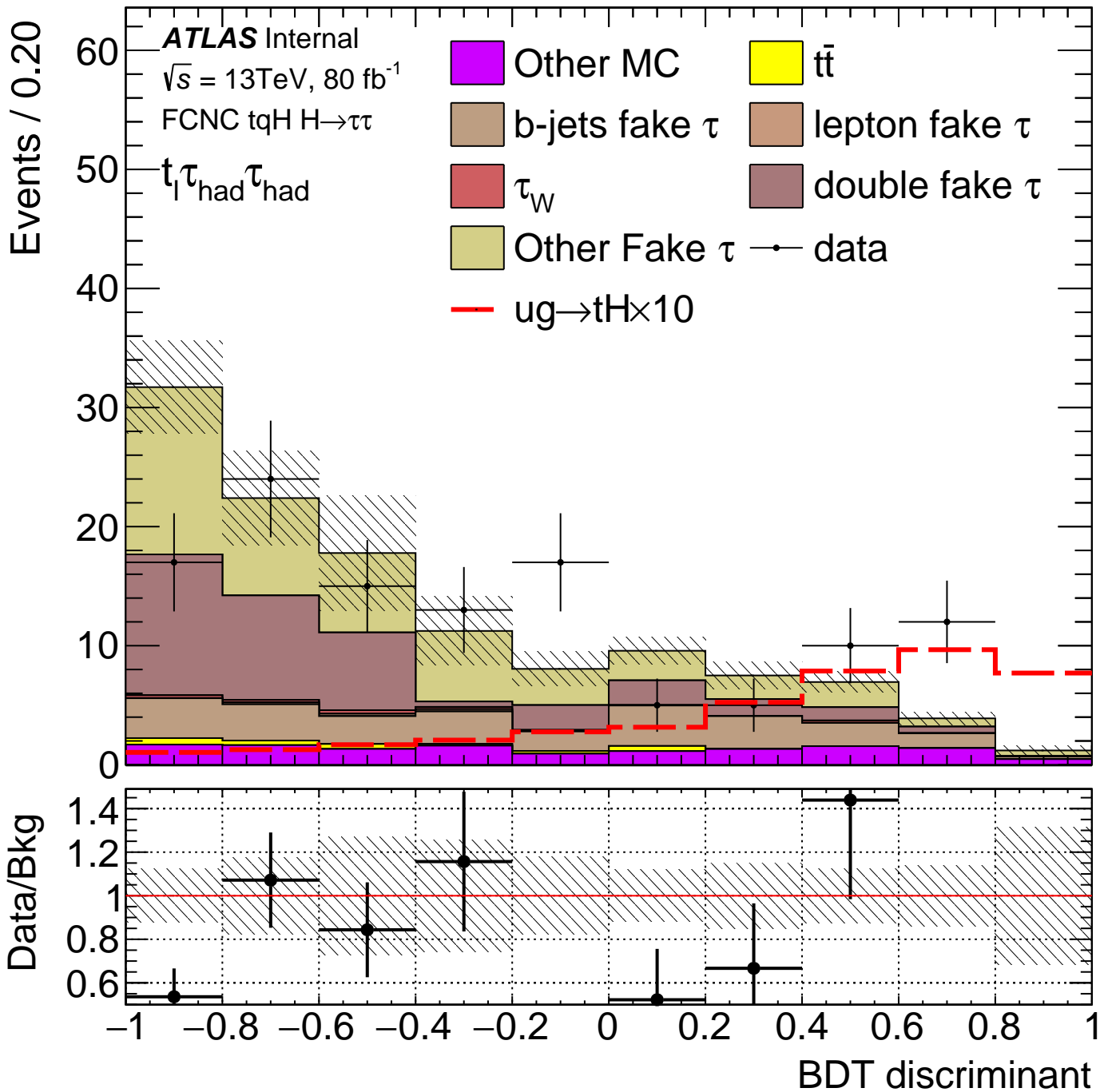
double fake  $\tau$

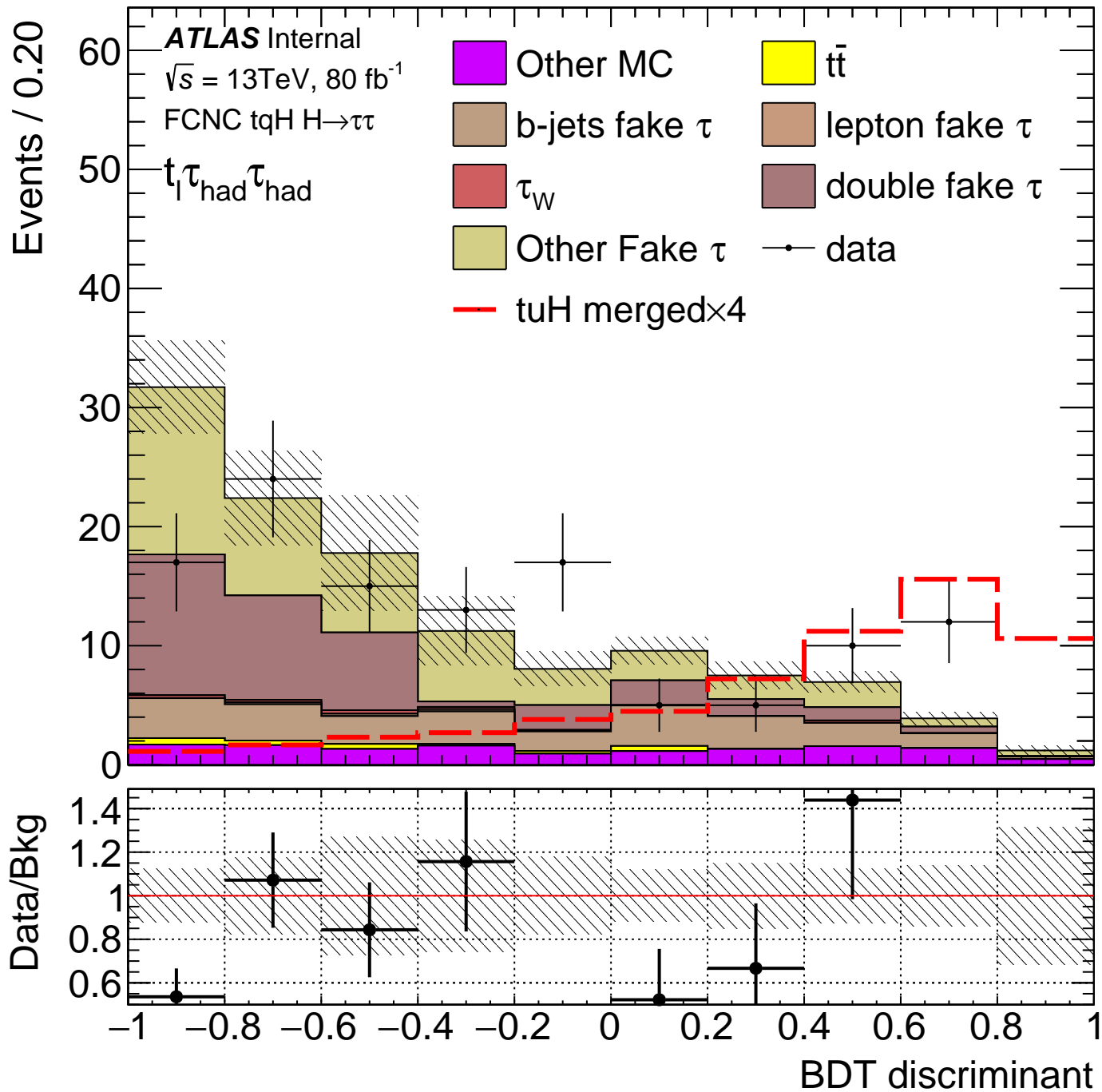
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Other MC

b-jets fake  $\tau$  $\tau_W$ Other Fake  $\tau$  $\bar{t}t \rightarrow bWcH \times 6$  $\bar{t}t \rightarrow bWuH \times 6$  $\bar{t}t$ lepton fake  $\tau$ double fake  $\tau$ 

data

 $cg \rightarrow tH \times 70$  $ug \rightarrow tH \times 10$ 

Data/Bkg

BDT discriminant

