

Events / 0.25

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

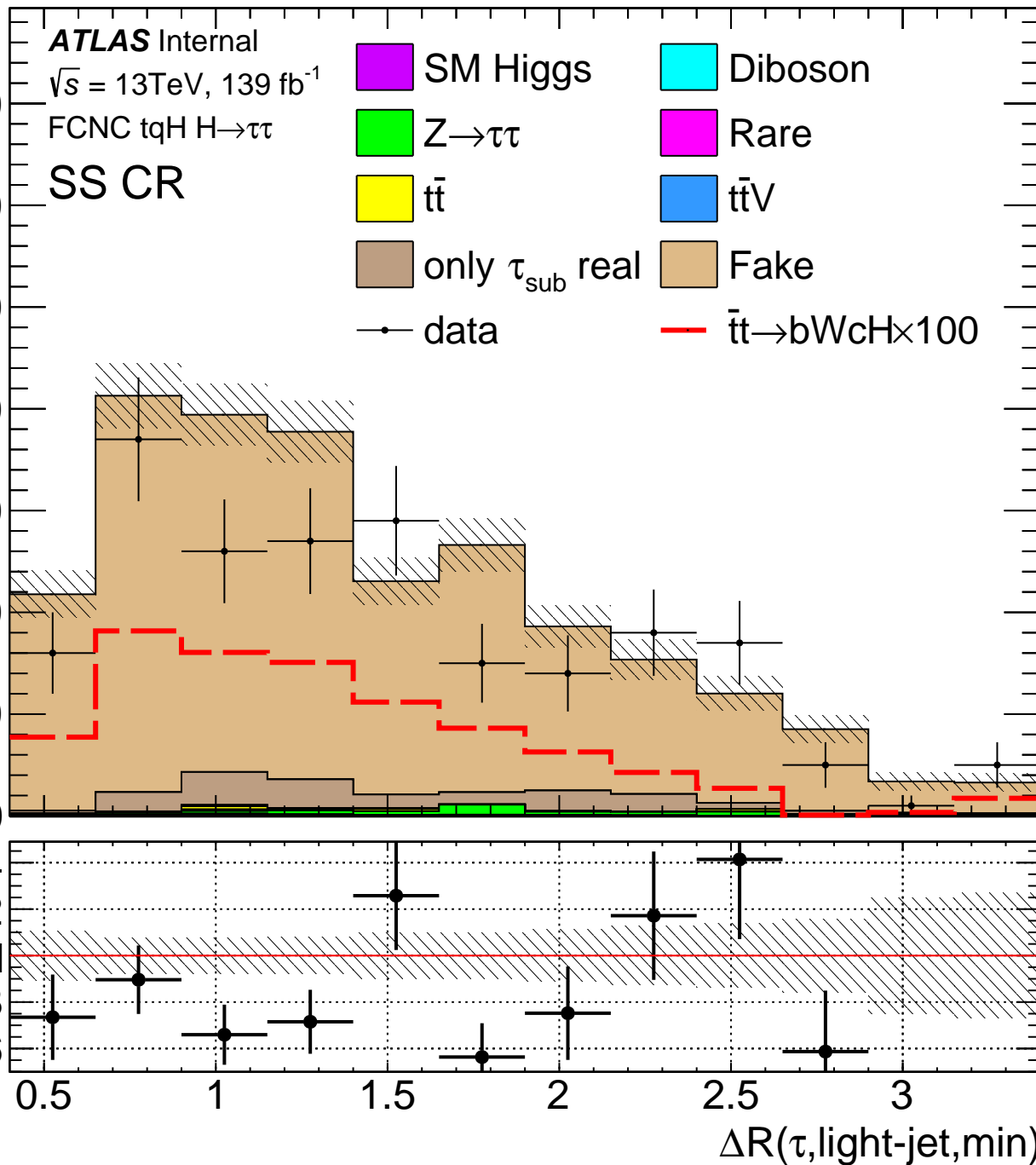
Rare

 $t\bar{t}V$

Fake

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

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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data

Diboson

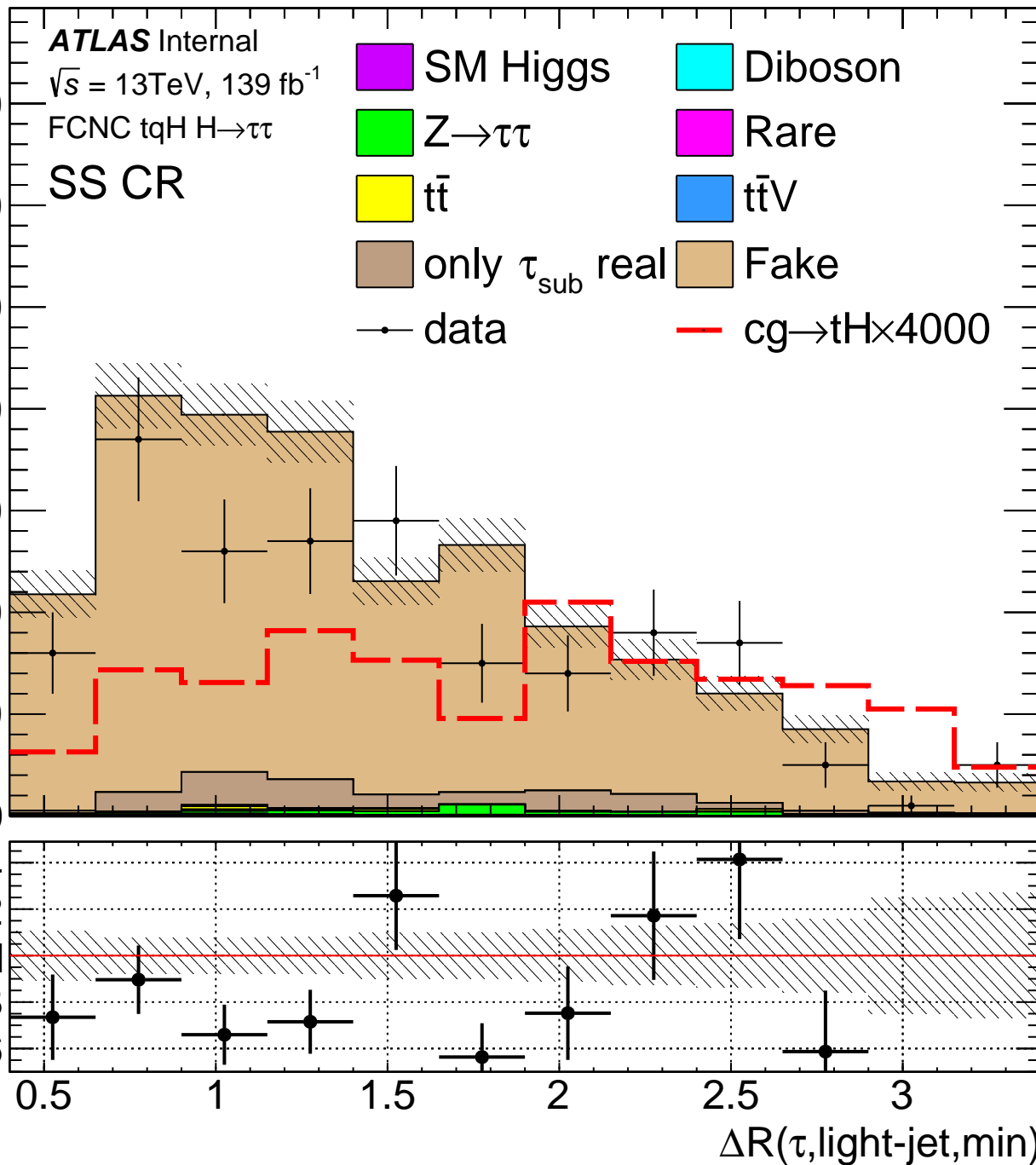
Rare

 $t\bar{t}V$

Fake

 $cg \rightarrow tH \times 4000$

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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data

Diboson

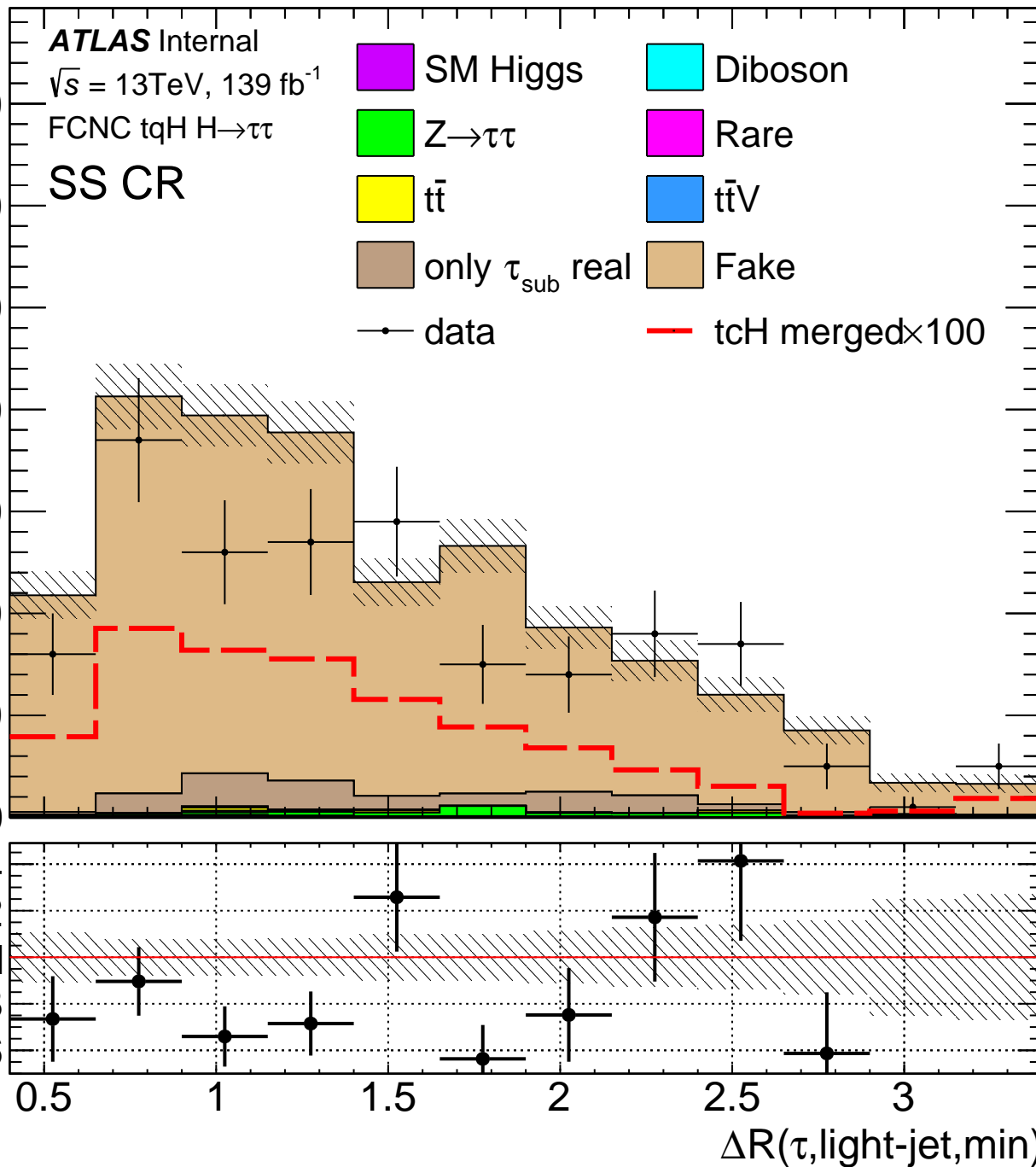
Rare

 $t\bar{t}V$

Fake

tcH merged $\times 100$

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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Diboson

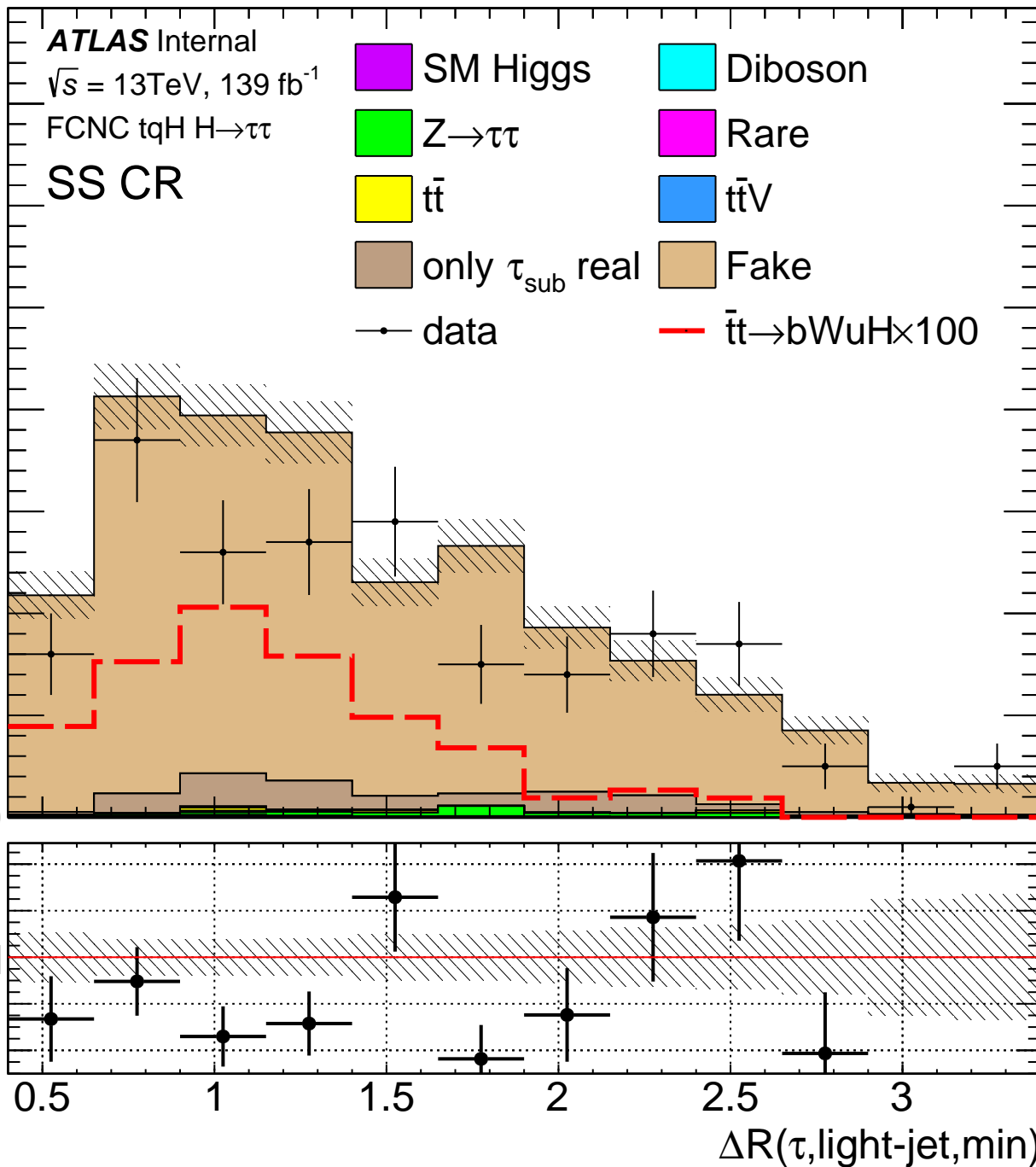
Rare

 $t\bar{t}V$

Fake

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

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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FCNC tqH $H \rightarrow \tau\tau$
SS CR

SM Higgs

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

data

Diboson

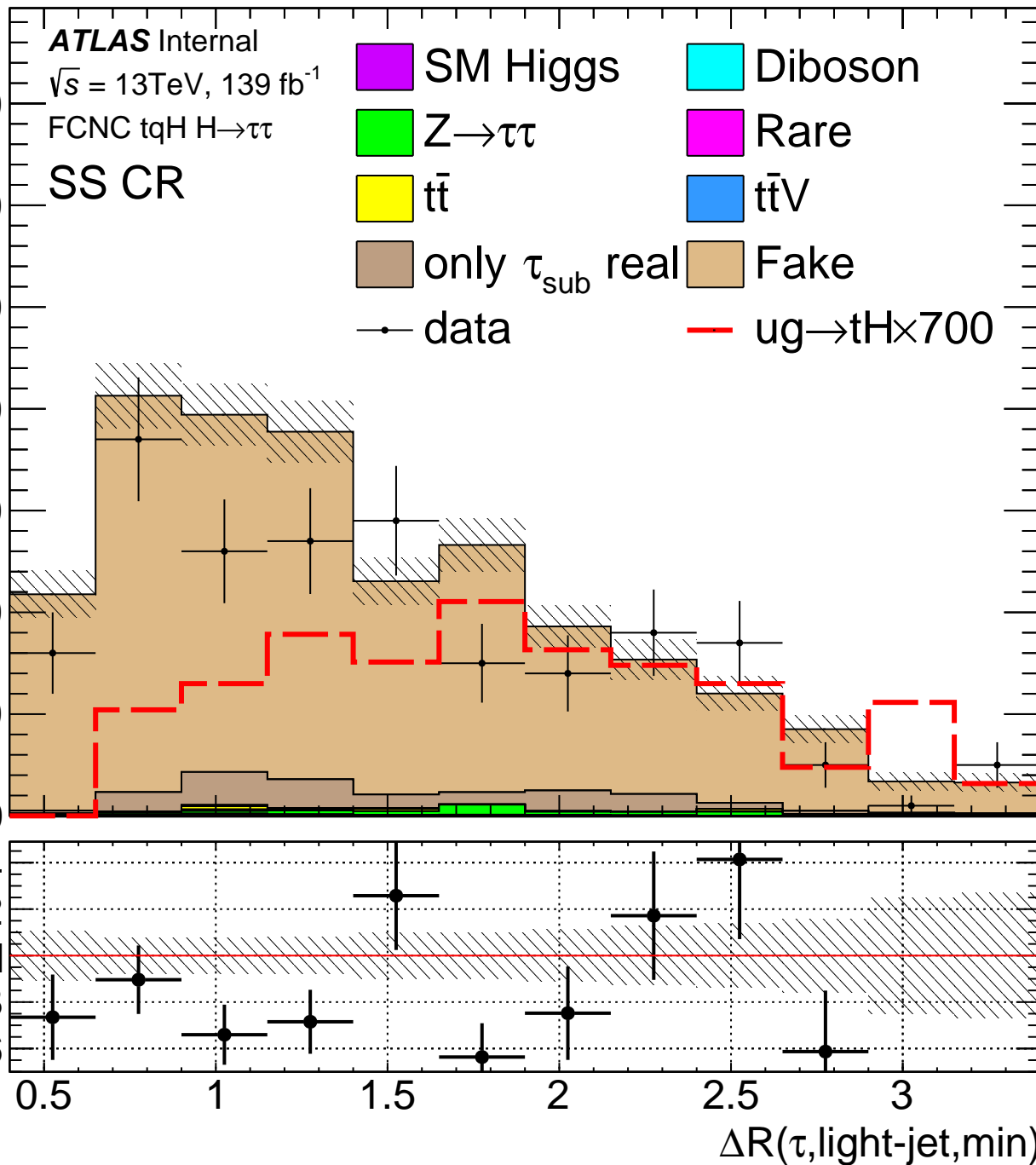
Rare

 $t\bar{t}V$

Fake

 $ug \rightarrow tH \times 700$

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

Events / 0.25

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

SM Higgs

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

data

Diboson

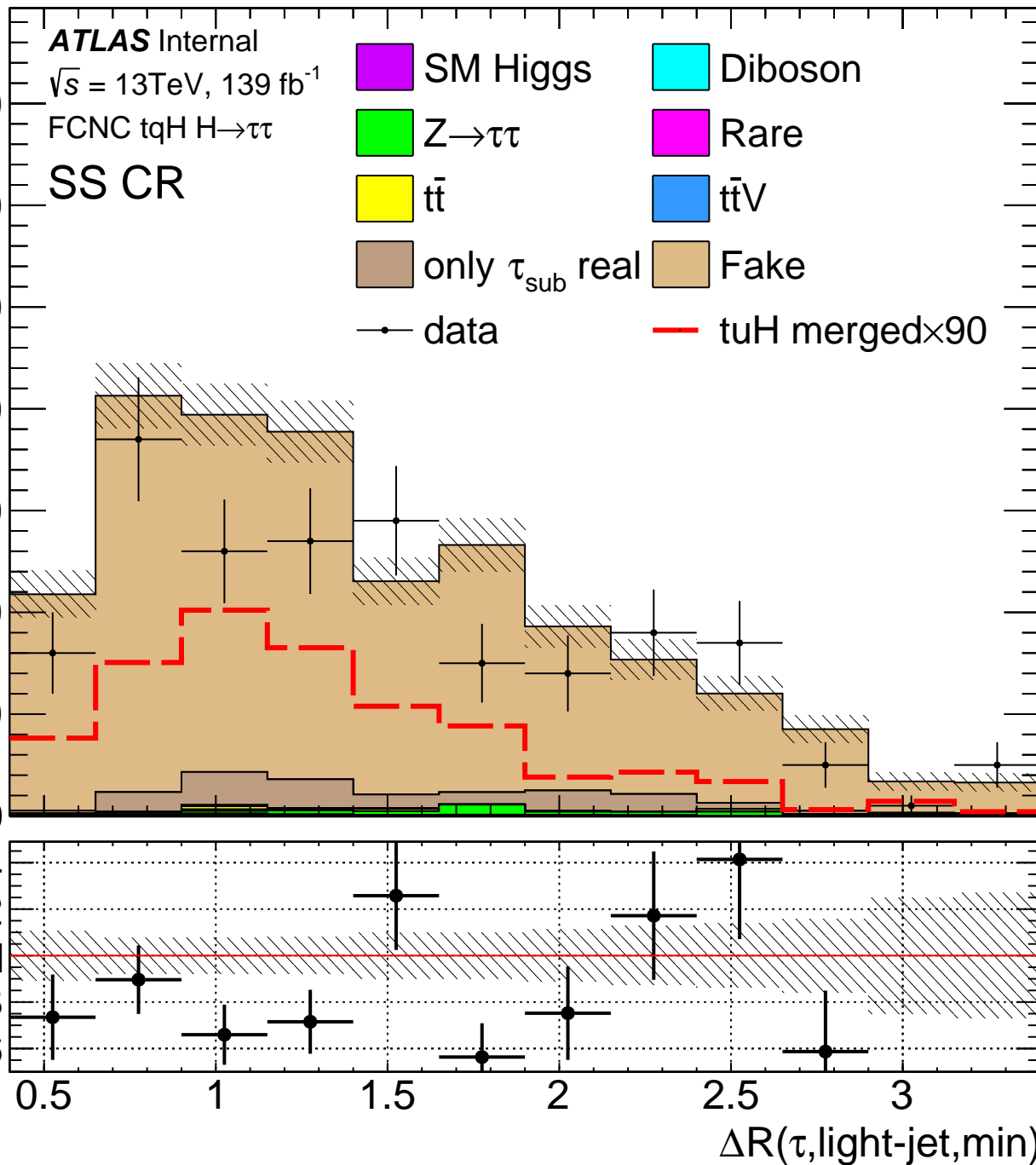
Rare

 $t\bar{t}V$

Fake

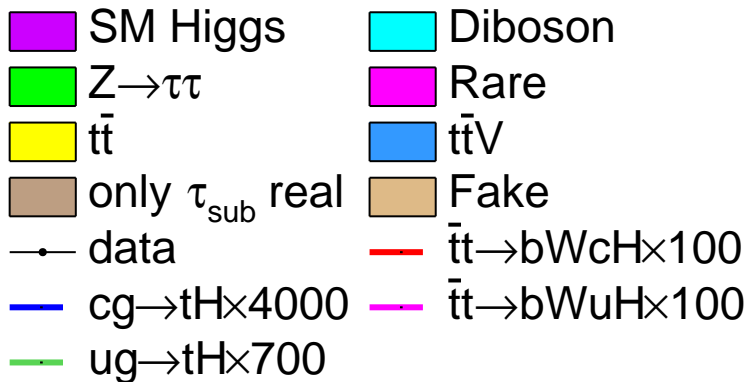
tuH merged $\times 90$

Data/Bkg

 $\Delta R(\tau, \text{light-jet}, \text{min})$ 

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SS CR



Data/Bkg

