

# ATLAS Internal

VH,  $H \rightarrow c\bar{c}$  Run-2:  $140 \text{ fb}^{-1}$ ,  $\sqrt{s}=13 \text{ TeV}$

VBF  $H \rightarrow c\bar{c}$  Run-2:  $37.5 \text{ fb}^{-1}$ ,  $\sqrt{s}=13 \text{ TeV}$

VBF  $H \rightarrow c\bar{c}$  Run-3:  $51.5 \text{ fb}^{-1}$ ,  $\sqrt{s}=13.6 \text{ TeV}$

$\pm 1\sigma$

$\pm 2\sigma$

Expected

Observed

## VBF $H \rightarrow c\bar{c}$

Exp. =  $27.5 \times \text{SM}$

Obs. =  $41.1 \times \text{SM}$

## VH, $H \rightarrow c\bar{c}$

Exp. =  $10.6 \times \text{SM}$

Obs. =  $11.5 \times \text{SM}$

## Combined

Exp. =  $9.8 \times \text{SM}$

Obs. =  $12.8 \times \text{SM}$

0

10

20

30

40

50

95% C.L. limit on  $\mu^{cc}$