

Extrapolation to HL-LHC

ATLAS Preliminary

$\sqrt{s} = 14 \text{ TeV}, 3000 \text{ fb}^{-1}$

$H \rightarrow ZZ, |y_H| < 2.5$

ggF

VBF

VH

top

Total

Stat.

Syst.

$1.00 \pm 0.04 \text{ (} \pm 0.02 \text{ , } \pm 0.04 \text{)}$

$1.00 \pm 0.12 \text{ (} ^{+0.10}_{-0.09} \text{ , } \pm 0.07 \text{)}$

$1.00 \text{ } ^{+0.19}_{-0.18} \text{ (} ^{+0.18}_{-0.17} \text{ , } ^{+0.07}_{-0.06} \text{)}$

$1.00 \text{ } ^{+0.23}_{-0.20} \text{ (} ^{+0.22}_{-0.20} \text{ , } ^{+0.06}_{-0.05} \text{)}$

—●— Total



Stat



Syst



SM

0.6

0.8

1

1.2

1.4

1.6

1.8

$(\sigma \times B) / (\sigma \times B)_{\text{SM}}$