

Extrapolation to HL-LHC

ATLAS Preliminary

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

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

Total Stat. Syst.

ggF

$1.00 \pm 0.04 \quad (\pm 0.02, \pm 0.03)$

VBF

$1.00 \quad {}^{+0.10}_{-0.09} \quad (\pm 0.04, \pm 0.08)$

VH

$1.00 \pm 0.09 \quad (\pm 0.08, \quad {}^{+0.05}_{-0.04})$

top

$1.00 \quad {}^{+0.08}_{-0.07} \quad (\pm 0.05, \pm 0.06)$

● Total

Stat

Syst

SM

0.8 0.9 1 1.1 1.2 1.3 1.4

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