| Parameter | SM prediction | Best fit value | Uncertainty |  | Best fit value | Uncertainty |  | Best fit value | Uncertainty |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stat | Syst |  | Stat | Syst |  | Stat | Syst |
|  |  | ATL | AS+CMS |  |  | TLAS |  |  | CMS |  |
| $\begin{aligned} & \sigma(g g \rightarrow \\ & H \rightarrow Z Z)[\mathrm{pb}] \end{aligned}$ | $0.51 \pm 0.06$ | $\begin{array}{r} 0.59{ }_{-0.10}^{+0.11} \\ \binom{+0.11}{-0.10} \end{array}$ | $\begin{gathered} +0.11 \\ \left(\begin{array}{c} -0.10 \\ (0.11 \\ -0.09 \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.02 \\ { }_{-0.02}^{+0.03} \\ \left(\begin{array}{c} 0.02 \end{array}\right) \end{gathered}$ | $\begin{array}{r} 0.777_{-0.17}^{+0.19} \\ \binom{+0.16}{-0.14} \end{array}$ | $\begin{gathered} +0.19 \\ -0.16 \\ \binom{+0.16}{-0.13} \end{gathered}$ | $\begin{gathered} { }_{-0.03}^{+0.05} \\ \binom{+0.03}{-0.02} \end{gathered}$ | $\begin{gathered} 0.44_{-0.12}^{+0.14} \\ \binom{+0.15}{-0.13} \end{gathered}$ | $\begin{gathered} +0.13 \\ -0.11 \\ \binom{+0.15}{-0.13} \end{gathered}$ | $\begin{gathered} { }_{-0.03}^{+0.05} \\ \binom{+0.04}{-0.03} \end{gathered}$ |
| $\sigma_{\mathrm{VBF}} / \sigma_{g g \mathrm{~F}}$ | $0.082 \pm 0.009$ |  | $\begin{gathered} +0.029 \\ (-0.024 \\ \binom{+0.024}{-0.020} \end{gathered}$ | $\begin{gathered} +0.018 \\ -0.013 \\ \binom{+0.016}{-0.012} \end{gathered}$ | $\begin{array}{r} 0.079{ }_{-0.026}^{+0.035} \\ \left(\begin{array}{l} \left(\begin{array}{l} -0.032 \end{array}\right) \end{array}{ }_{-}^{+0.042}\right) \end{array}$ | $\begin{gathered} { }^{+0.0030} \\ \binom{+0.023}{-0.028} \end{gathered}$ | $\begin{gathered} +0.019 \\ (-0.012 \\ \binom{+0.022}{+0.014} \end{gathered}$ | $\begin{array}{r} 0.138_{-0.051}^{+0.073} \\ \left(\begin{array}{l} { }_{-0.033}^{+0.043} \end{array}\right) \end{array}$ | $\begin{gathered} +0.061 \\ -0.046 \\ \binom{+0.037}{-0.029} \end{gathered}$ | $\begin{gathered} { }_{-0.023}^{+0.039} \\ \binom{+0.023}{-0.015} \end{gathered}$ |
| $\sigma_{W H} / \sigma_{g g \mathrm{~F}}$ | $0.037 \pm 0.004$ | $\begin{array}{r} 0.031_{-0.026}^{+0.028} \\ \binom{+0.021}{-0.017} \end{array}$ | $\begin{gathered} +0.024 \\ -0.022 \\ \binom{+0.019}{-0.015} \end{gathered}$ | $\begin{gathered} +0.015 \\ (-0.014 \\ \binom{+0.011}{-0.007} \end{gathered}$ | $\begin{array}{r} 0.054_{-0.026}^{+0.036} \\ \binom{+0.033}{-0.022} \end{array}$ | $\begin{gathered} +0.031 \\ -0.023 \\ \binom{+0.029}{-0.020} \end{gathered}$ | $\begin{gathered} +0.020 \\ (-0.013 \\ \binom{+0.015}{-0.009} \end{gathered}$ | $\begin{array}{r} 0.005_{-0.037}^{+0.044} \\ \binom{-0.032}{-0.022} \end{array}$ | $\begin{gathered} +0.037 \\ { }_{-0.028}^{+0.027} \\ \left(\begin{array}{l} +0.020 \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.023 \\ -0.024 \\ \binom{+0.017}{-0.010} \end{gathered}$ |
| $\sigma_{\mathrm{ZH}} / \sigma_{g g \mathrm{~F}}$ | $0.0216 \pm 0.0024$ | $\begin{array}{r} 0.066_{-0.031}^{+0.039} \\ \binom{+0.016}{-0.011} \end{array}$ | $\begin{gathered} { }_{-0.025}^{+0.032} \\ \binom{+0.014}{-0.010} \end{gathered}$ | $\begin{gathered} +0.023 \\ (-0.018 \\ \binom{+0.0009}{-0.004} \end{gathered}$ | $\begin{array}{r} 0.013_{-0.014}^{+0.028} \\ \binom{+0.027}{-0.014} \end{array}$ | $\begin{gathered} +0.021 \\ (-0.012 \\ \binom{+0.003}{-0.013} \end{gathered}$ | $\begin{gathered} +0.018 \\ { }_{-0.007}^{\prime} \\ \left(\begin{array}{l} +0.0014 \end{array}\right) \end{gathered}$ | $\begin{array}{r} 0.123_{-0.053}^{+0.076} \\ \binom{-0.024}{-0.013} \end{array}$ | $\begin{gathered} +0.063 \\ -0.046 \\ \binom{+0.020}{-0.012} \end{gathered}$ | $\begin{gathered} +0.044 \\ -0.026 \\ \binom{+0.014}{-0.006} \end{gathered}$ |
| $\sigma_{t t H} / \sigma_{g g \mathrm{~F}}$ | $0.0067 \pm 0.0010$ | $\begin{array}{r} 0.022_{-0.006}^{+0.007} \\ \binom{+0.004}{-0.004} \end{array}$ | $\begin{gathered} { }_{-0.005}^{+0.005} \\ \binom{+0.003}{-0.003} \end{gathered}$ | $\begin{gathered} +0.004 \\ -0.003 \\ \binom{+0.003}{-0.002} \end{gathered}$ | $\begin{array}{r} 0.013_{-0.0005}^{+0.007} \\ \binom{+0.0064}{+0.006} \end{array}$ | $\begin{gathered} { }_{-0.004}^{+0.005} \\ \binom{+0.005}{-0.004} \end{gathered}$ | $\begin{gathered} +0.004 \\ (-0.003 \\ \binom{+0.004}{-0.003} \end{gathered}$ | $\begin{array}{r} 0.034_{-0.012}^{+0.016} \\ \binom{+0.007}{-0.005} \end{array}$ | $\begin{gathered} +0.012 \\ { }_{-0.010} \\ \binom{+0.005}{-0.004} \end{gathered}$ | $\begin{gathered} { }_{-0.006}^{+0.010} \\ \binom{+0.004}{-0.004} \end{gathered}$ |
| $\mathrm{B}^{W W} / \mathrm{B}^{Z Z}$ | $8.09 \pm<0.01$ | $\begin{array}{r} 6.7_{-1.3}^{+1.6} \\ \binom{+2.2}{-1.7} \end{array}$ | $\begin{gathered} +1.5 \\ -1.2 \\ \binom{+2.0}{-1.6} \end{gathered}$ | $\begin{gathered} +0.6 \\ { }_{-0.5}^{+0.9} \\ \left(\begin{array}{c} +0.7 \end{array}\right) \end{gathered}$ | $\begin{array}{r} 6.5_{-1.6}^{+2.1} \\ \binom{+3.5}{-2.4} \end{array}$ | $\begin{gathered} +2.0 \\ -1.4 \\ \binom{+3.3}{-2.2} \end{gathered}$ | $\begin{gathered} +0.8 \\ (-0.6 \\ \binom{+1.2}{-0.9} \end{gathered}$ | $\begin{array}{r} 7.1_{-2.1}^{+2.9} \\ \binom{+3.2}{-2.2} \end{array}$ | $\begin{gathered} +2.6 \\ -1.8 \\ \binom{+2.9}{-2.0} \end{gathered}$ | $\begin{gathered} +1.3 \\ -0.9 \\ \binom{+1.4}{-1.0} \end{gathered}$ |
| $\mathrm{B}^{\gamma \gamma} / \mathrm{B}^{Z Z}$ | $0.0854 \pm 0.0010$ | $\begin{gathered} 0.0699_{-0.014}^{+0.018} \\ \binom{+0.025}{-0.019} \end{gathered}$ | $\begin{gathered} +0.018 \\ (-0.014 \\ \binom{+0.024}{-0.019} \end{gathered}$ | $\begin{gathered} +0.004 \\ (-0.003 \\ \binom{+0.006}{+0.004} \end{gathered}$ | $\begin{array}{r} 0.062_{-0.018}^{+0.024} \\ \left(\begin{array}{l} \binom{+0.040}{-0.027} \end{array}\right. \end{array}$ | $\begin{gathered} +0.023 \\ (-0.017 \\ \binom{+0.039}{-0.027} \end{gathered}$ | $\begin{gathered} +0.007 \\ (-0.005 \\ \binom{+0.010}{-0.006} \end{gathered}$ | $\begin{array}{r} 0.079{ }_{-0.023}^{+0.034} \\ \left(\begin{array}{l} \binom{+0.025}{-0.035} \end{array}\right. \end{array}$ | $\begin{gathered} +0.032 \\ \left(\begin{array}{c} -0.023 \\ \left(\begin{array}{l} -0.034 \end{array}\right) \end{array}{ }_{-0.024}\right. \end{gathered}$ | $\begin{gathered} +0.010 \\ (-0.006 \\ \binom{+0.008}{-0.005} \end{gathered}$ |
| $\mathrm{B}^{\tau \tau} / \mathrm{B}^{Z Z}$ | $2.36 \pm 0.05$ | $\begin{array}{r} 1.8_{-0.5}^{+0.6} \\ \binom{+0.9}{-0.7} \end{array}$ | $\begin{gathered} +0.5 \\ -0.4 \\ \binom{+0.8}{-0.6} \end{gathered}$ | $\begin{gathered} +0.3 \\ -0.2 \\ \binom{+0.5}{-0.3} \end{gathered}$ | $\begin{array}{r} 2.2_{-0.7}^{+1.1} \\ \binom{+1.5}{-1.0} \end{array}$ | $\begin{gathered} +0.9 \\ -0.6 \\ \binom{+1.3}{-0.9} \end{gathered}$ | $\begin{gathered} +0.6 \\ -0.4 \\ \binom{+0.8}{-0.5} \end{gathered}$ | $\begin{array}{r} 1.6_{-0.6}^{+0.9} \\ \binom{+1.2}{-0.9} \end{array}$ | $\begin{gathered} +0.8 \\ \left(\begin{array}{c} -0.5 \\ (+1.0 \\ -0.7 \end{array}\right) \end{gathered}$ | $\begin{gathered} { }_{-0.5}^{+0.5} \\ \binom{+0.7}{-0.4} \end{gathered}$ |
| $\mathrm{B}^{b b} / \mathrm{B}^{Z Z}$ | $21.5 \pm 1.0$ | $\begin{gathered} 4.2_{-2.6}^{+4.4} \\ \binom{+16.8}{-9.0} \end{gathered}$ | $\begin{gathered} +2.8 \\ -2.0 \\ \binom{+13.9}{-7.9} \end{gathered}$ | $\begin{gathered} +3.4 \\ -1.6 \\ \binom{+9.5}{-4.4} \end{gathered}$ | $\begin{array}{r} 9.6_{-5.7}^{+10.1} \\ \binom{+29.3}{-11.8} \\ \hline \hline \end{array}$ | $\begin{gathered} +7.4 \\ -4.4 \\ \binom{+24.2}{-10.5} \end{gathered}$ | $\begin{gathered} +6.9 \\ -3.6 \\ \binom{+16.6}{-5.3} \end{gathered}$ | $\begin{array}{r} 3.7_{-2.4}^{+4.1} \\ \binom{+29.4}{-11.9} \\ \hline \hline \end{array}$ | $\begin{gathered} { }_{-2.0}^{+3.1} \\ \binom{+23.4}{-10.4} \end{gathered}$ | $\begin{gathered} +2.7 \\ -1.4 \\ \binom{+17.8}{-5.9} \end{gathered}$ |

