| Parameter | SM prediction | Best fit value | Uncertainty |  |  |  | Best fit value | Uncertainty |  |  |  | Best fit value | Uncertainty |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stat | Expt | Thbgd | Thsig |  | Stat | Expt | Thbgd | Thsig |  | Stat | Expt | Thbgd | Thsig |
|  |  |  | ATL | AS+CMS |  |  |  |  | TLAS |  |  |  |  | CMS |  |  |
| $\begin{aligned} & \sigma(g g \rightarrow \\ & H \rightarrow W W)[\mathrm{pb}] \end{aligned}$ | $4.1 \pm 0.5$ | $\begin{gathered} 4.0_{-0.6}^{+0.6} \\ \binom{+0.7}{{ }_{-0.6}^{+0.6}} \end{gathered}$ |  | $\begin{gathered} +0.3 \\ (-0.3 \\ \binom{+0.3}{-0.3} \end{gathered}$ | $\begin{gathered} +0.2 \\ \binom{+0.2}{\left(\begin{array}{c} +0.3 \end{array}\right)} \end{gathered}$ | $\begin{gathered} +0.2 \\ \binom{-0.1}{\binom{+0.2}{-0.1}} . \end{gathered}$ | $\begin{gathered} 5.0_{-0.9}^{+1.0} \\ \binom{+0.9}{-0.9} \end{gathered}$ | $\begin{gathered} +0.7 \\ \binom{+0.7}{\left(\begin{array}{c} +0.7 \end{array}\right)} \end{gathered}$ | $\begin{gathered} +0.4 \\ \left(\begin{array}{c} +0.4 \\ \left({ }_{-0.4}^{+0.4}\right. \\ -0.4 \end{array}\right) \end{gathered}$ |  | $\begin{gathered} +0.2 \\ -0.2 \\ \binom{+0.2}{-0.1} \end{gathered}$ | $\begin{gathered} 3.1{ }_{-0.8}^{+0.8} \\ \binom{+0.9}{-0.9} \end{gathered}$ | $\begin{gathered} { }_{-0.6}^{+0.6} \\ \binom{+0.6}{{ }_{0.6}^{+0.6}} \end{gathered}$ | $\begin{gathered} \left.+\begin{array}{c} +0.5 \\ -0.4 \\ \left({ }_{-0.5}^{+0.5}\right. \\ -0.5 \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.3 \\ \binom{+0.3}{\binom{+0.4}{-0.3}} . \end{gathered}$ | $\begin{gathered} +0.2 \\ \binom{+0.1}{\left(\begin{array}{c} +0.2 \end{array}\right)} \end{gathered}$ |
| $\sigma_{\mathrm{VBF}} / \sigma_{g g \mathrm{~F}}$ | $0.082 \pm 0.009$ | $\begin{array}{r} 0.109_{-0.027}^{+0.034} \\ \binom{{ }^{+0.029}}{-0.024} \end{array}$ | $\begin{gathered} { }_{-0.024}^{+0.028} \\ \binom{+0.024}{-0.020} \end{gathered}$ | $\begin{gathered} { }_{-0.009}^{+0.013} \\ \left(\begin{array}{c} +0.009 \\ \left({ }_{-0.009}^{+0}\right) \end{array}\right. \end{gathered}$ | $\begin{gathered} +0.006 \\ \left(\begin{array}{c} -0.004 \\ \binom{+0.000}{-0.003} \end{array}\right. \end{gathered}$ | $\begin{gathered} +0.011 \\ { }_{-0.008}^{+0.019} \\ \binom{+0.009}{-0.007} \end{gathered}$ | $\left.\begin{array}{r} 0.079{ }_{-0.026}^{+0.035} \\ \left({ }^{+0.042}\right. \\ -0.031 \end{array}\right)$ | $\begin{gathered} +0.030 \\ -0.023 \\ \binom{+0.036}{-0.028} \end{gathered}$ | $\begin{gathered} { }_{-0.009}^{+0.009} \\ \binom{+0.016}{-0.010} \end{gathered}$ | $\begin{gathered} +0.008 \\ \left(\begin{array}{c} +0.005 \\ \binom{+0.010}{-0.006} \end{array}\right. \end{gathered}$ | $\begin{gathered} { }_{-0.006}^{+0.009} \\ \binom{{ }^{+0.0 .011}}{-0.008} \end{gathered}$ | $\begin{array}{r} 0.137{ }_{-0.051}^{+0.072} \\ \binom{{ }^{+0.043}}{-0.033} \end{array}$ | $\begin{gathered} +0.061 \\ +{ }_{-0.046}^{+0.017} \\ \left({ }_{-0.029}^{+0.029}\right) \end{gathered}$ | $\begin{gathered} { }_{-0.018}^{+0.032} \\ \binom{+0.000}{-0.012} \end{gathered}$ | $\begin{gathered} +0.014 \\ (-0.006 \\ \binom{+0.006}{-0.003} \end{gathered}$ | $\begin{gathered} { }_{-0.010}^{+0.016} \\ \binom{+0.010}{-0.008} \end{gathered}$ |
| $\sigma_{W H} / \sigma_{g g \mathrm{~F}}$ | $0.037 \pm 0.004$ | $0.030{ }_{-0.026}^{+0.028}$ | $\begin{gathered} { }_{-0.022}^{+0.024} \\ \binom{+0.019}{-0.015} \end{gathered}$ | $\begin{gathered} { }^{+0.0012} \\ \left(\begin{array}{c} -0.012 \\ +0.0 .005 \\ -0.005 \end{array}\right) \end{gathered}$ | $\begin{gathered} { }_{-0.0088}^{+0.008} \\ \binom{+0.007}{-0.005} \end{gathered}$ | $\begin{gathered} +0.003 \\ \left(\begin{array}{c} -0.002 \\ +0.003 \\ { }_{-0.002} \end{array}\right) \end{gathered}$ | $\begin{array}{r} 0.054_{-0.026}^{+0.037} \\ \binom{+0.032}{+0.032} \end{array}$ | $\begin{gathered} +{ }_{-0.023}^{+0.031} \\ \binom{+0.029}{-0.020} \end{gathered}$ | $\begin{gathered} { }^{+0.0 .012} \\ \binom{0.008}{+0.0006} \end{gathered}$ | $\begin{gathered} { }_{-0.009}^{+0.014} \\ \binom{+0.011}{-0.006} \end{gathered}$ | $\begin{gathered} { }_{-0.003}^{+0.007} \\ \binom{+0.004}{-0.002} \end{gathered}$ | $\begin{gathered} 0.005_{-0.037}^{+0.043} \\ \binom{+0.022}{-0.032} \end{gathered}$ | $\begin{gathered} +0.037 \\ \left(\begin{array}{c} -0.028 \\ +0.027 \\ { }_{-0.020} \end{array}\right) \end{gathered}$ | $\begin{gathered} { }^{+0.0 .021} \\ \binom{0.023}{(+0.0008} \end{gathered}$ | $\begin{gathered} { }_{-0.008}^{+0.010} \\ \binom{+0.009}{-0.006} \end{gathered}$ | $\begin{gathered} +0.003 \\ \left(\begin{array}{c} -0.001 \\ +0.003 \\ -0.001 \end{array}\right) \end{gathered}$ |
| $\sigma_{\text {ZH }} / \sigma_{g g \mathrm{~F}}$ | $0.0216 \pm 0.0024$ | $\begin{array}{r} 0.066_{-0.031}^{+0.039} \\ \binom{+0.016}{-0.011} \end{array}$ | $\begin{gathered} { }_{c}^{+0.0 .032} \\ \left(\begin{array}{c} -0.025 \\ +0.0 .010 \\ -0.010 \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.018 \\ (-0.013 \\ \binom{+0.006}{-0.003} \end{gathered}$ | $\begin{gathered} { }_{-0.012}^{+0.014} \\ \binom{+0.006}{-0.003} \end{gathered}$ | $\begin{gathered} +0.005 \\ \left(\begin{array}{c} -0.003 \\ +0.002 \\ { }_{-0.001} \end{array}\right) \end{gathered}$ | $\begin{array}{r} 0.013{ }_{-0.013}^{+0.028} \\ \binom{+0.027}{-0.014} \end{array}$ | $\begin{gathered} { }_{-0.008}^{+0.021} \\ \binom{+0.023}{-0.013} \end{gathered}$ | $\begin{gathered} +0.013 \\ { }_{-0.011}^{+0.011} \\ \left(\begin{array}{c} +0.0093 \end{array}\right) \end{gathered}$ | $\begin{gathered} { }_{-0.006}^{+0.013} \\ \binom{+0.011}{-0.004} \end{gathered}$ | $\begin{gathered} { }_{-0.002}^{+0.003} \\ \binom{+0.0003}{-0.001} \end{gathered}$ | $\begin{array}{r} 0.123{ }_{-0.052}^{+0.075} \\ \binom{+0.024}{-0.024} \end{array}$ | $\begin{gathered} { }^{+0.0 .062} \\ \left(\begin{array}{c} 0.046 \\ +0.020 \\ -0.012 \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.01 \\ { }_{-0.021}^{+0.012} \\ \binom{+0.0004}{{ }_{-0.004}} \end{gathered}$ | $\begin{gathered} { }_{-0.013}^{+0.018} \\ \binom{+0.009}{-0.004} \end{gathered}$ | $\begin{gathered} { }_{-0.005}^{+0.009} \\ \binom{+0.002}{-0.001} \end{gathered}$ |
| $\sigma_{t t H} / \sigma_{g g \mathrm{~F}}$ | $0.0067 \pm 0.0010$ | $\begin{array}{r} \left.0.0220 \begin{array}{c} +0.0068 \\ -0.0057 \\ \left({ }_{-0.00435}^{+0.0042}\right) \end{array}\right) \end{array}$ | $\left.\begin{array}{c} { }^{+0.00055} \\ -0.0048 \\ \left({ }_{-0.00327}^{+0.0033}\right. \end{array}\right)$ | $\begin{gathered} { }^{+0.0 .0031} \\ \left(\begin{array}{c} -0.0023 \\ +0.0018 \\ { }_{-0.0013} \end{array}\right) \end{gathered}$ | $\begin{gathered} { }^{+0.0023} \\ \left(\begin{array}{c} 0.0020 \\ +0.0020 \\ -0.0019 \end{array}\right) \end{gathered}$ | $\begin{gathered} { }^{+0.00014} \\ \left(\begin{array}{c} -0.0010 \\ (+0.0005 \\ -0.0003 \end{array}\right) \end{gathered}$ | $\begin{array}{r} 0.0126_{-0.0053}^{+0.0006} \\ \left(\begin{array}{c} -0.0 .0060 \end{array}\right) \\ \left.{ }_{-0.0}^{+0.00645}\right) \end{array}$ | $\begin{gathered} +0.0052 \\ -0.0042 \\ \binom{+0.0047}{-0.0035} \end{gathered}$ | $\begin{gathered} { }^{+0.0 .0031} \\ (-0.0023 \\ \binom{+0.0026}{-0.0017} \end{gathered}$ | $\begin{gathered} { }^{+0.0024} \\ (-0.0020 \\ \left({ }_{-0.00272}^{+0.0027}\right) \end{gathered}$ | $\begin{gathered} { }^{+0.0 .0013} \\ \left(\begin{array}{c} -0.0007 \\ +0.0008 \\ -0.0004 \end{array}\right) \end{gathered}$ | $\left\lvert\, \begin{array}{r} 0.0340 \\ \left(\begin{array}{c} -0.0116 \\ +0.0067 \\ -0.00054 \end{array}\right) \end{array}\right.$ | $\begin{gathered} { }^{+0.00121} \\ (-0.0096 \\ \binom{+0.0051}{-0.0038} \end{gathered}$ | $\begin{gathered} { }^{+0.0 .0085} \\ \binom{+0.0050}{{ }_{-0.0016}^{+0.0027}} \end{gathered}$ | $\begin{gathered} { }^{+0.00048} \\ \left(\begin{array}{c} -0.0036 \\ +0.0032 \\ -0.0034 \end{array}\right) \end{gathered}$ | $\begin{gathered} { }^{+0.00026} \\ \left(\begin{array}{c} -0.0015 \\ (+0.0006 \\ -0.0002 \end{array}\right) \end{gathered}$ |
| $\mathrm{B}^{Z Z} / \mathrm{B}$ | $0.124 \pm<0.001$ | $\begin{gathered} 0.148{ }_{-0.029}^{+0.035} \\ \binom{\left.{ }^{+0.0 .027}\right)}{-0.027} \end{gathered}$ | $\begin{gathered} { }_{-0.027}^{+0.032} \\ \binom{+0.029}{{ }_{-0.025}} \end{gathered}$ | $\begin{gathered} { }_{-0.0007}^{+0.010} \\ \binom{+0.011}{-0.007} \end{gathered}$ | $\begin{gathered} +0.009 \\ \left(\begin{array}{c} -0.006 \\ +0.009 \\ -0.006 \end{array}\right) \end{gathered}$ | $\left(\begin{array}{c} +0.006 \\ -0.004 \\ \binom{+0.0053}{{ }_{-0.003}} \end{array}\right.$ | $\begin{gathered} 0.155_{-0.039}^{+0.050} \\ \left(\begin{array}{c} \left.{ }_{-0.037}^{+0.050}\right) \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.045 \\ \binom{0.036}{\left(\begin{array}{l} +0.045 \end{array}\right)} \end{gathered}$ |  | $\left(\begin{array}{c} +0.014 \\ \binom{-0.008}{{ }_{-0.007}^{+0.07}} \end{array}\right.$ | $\left(\begin{array}{c} +0.007 \\ -0.005 \\ \binom{+0.0004}{{ }_{-0.004}} \end{array}\right.$ | $0.140{ }_{-0.041}^{+0.057}\binom{{ }^{+0.048}}{-0.035}$ | $\begin{gathered} +0.099 \\ \left(\begin{array}{c} -0.038 \\ +0.041 \\ { }_{-0.033} \end{array}\right) \end{gathered}$ | $\begin{gathered} { }_{-0.012}^{+0.023} \\ \binom{+0.019}{{ }_{-0.010}} \end{gathered}$ | $\left(\begin{array}{c} +0.016 \\ -0.008 \\ \binom{+0.013}{-0.007} \end{array}\right.$ | $\left(\begin{array}{c} +0.009 \\ -0.005 \\ \binom{+0.0095}{{ }_{-0.005}} \end{array}\right.$ |
| $\mathrm{B}^{\gamma \gamma} / \mathrm{B}^{W W}$ | $0.01056 \pm 0.00010$ | $\begin{array}{r} 0.0102{ }_{-0.00019}^{+0.0022} \\ \binom{+0.0025}{{ }_{-0.0020}} \end{array}$ | $\begin{gathered} +0.0020 \\ \binom{+0.00017}{\left(\begin{array}{c} +0.00219 \end{array}\right)} \end{gathered}$ | $\begin{gathered} { }^{+0.0 .0008} \\ \left(\begin{array}{c} -0.0005 \\ +0.0 .000 \\ { }_{-0.0006} \end{array}\right) \end{gathered}$ | $\begin{gathered} { }^{+0.00006} \\ \left(\begin{array}{c} -0.0004 \\ +0.0007 \\ -0.0005 \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.0004 \\ -0.0003 \\ \binom{+0.0005}{-0.0003} \end{gathered}$ | $\begin{array}{r} 0.0097{ }_{-0}^{+0.0031} \\ \binom{-0.0025}{{ }_{-0.0029}^{+0.0029}} \end{array}$ | $\begin{gathered} +0.0026 \\ -0.0023 \\ \binom{+0.0032}{-0.0027} \end{gathered}$ | $\begin{gathered} +0.0013 \\ \binom{+0.00008}{\left(\begin{array}{l} +0.00014 \end{array}\right)} \end{gathered}$ | $\begin{gathered} { }^{+0.00008} \\ \binom{-0.00051}{+0.00006} \end{gathered}$ | $\begin{gathered} { }^{+0.00006} \\ \binom{+0.00007}{-0.0005} \end{gathered}$ | $\begin{array}{r} 0.01111_{-0.0029}^{+0.0039} \\ \binom{+0.0236}{-0.0027} \end{array}$ | $\begin{gathered} +0.0033 \\ \binom{+0.0027}{\binom{+0.00030}{-0.0025}} \end{gathered}$ | $\begin{gathered} { }^{+0.0 .0018} \\ \left(\begin{array}{c} -0.0010 \\ +0.0 .015 \\ -0.0008 \end{array}\right) \end{gathered}$ | $\left.\begin{array}{c} { }_{-0.00006}^{+0.0012} \\ \left({ }^{+0.00011}\right. \\ -0.0005 \end{array}\right)$ | $\begin{gathered} { }^{+0.00006} \\ \left({ }^{+0.00004}\right. \\ \left.{ }_{-0.0004}^{+0.0}\right) \end{gathered}$ |
| $\mathrm{B}^{\tau \tau} / \mathrm{B}^{W W}$ | $0.292 \pm 0.006$ | $\begin{array}{r} 0.26_{-0.06}^{+0.08} \\ \binom{+0.09}{-0.09} \end{array}$ | $\begin{gathered} { }_{-0.05}^{+0.06} \\ \binom{+0.07}{-0.06} \end{gathered}$ | $\begin{gathered} { }_{-0.03}^{+0.04} \\ \binom{+0.06}{{ }_{-0.04}} \end{gathered}$ | $\begin{gathered} +{ }_{-0.01}^{0.01} \\ \binom{+0.02}{-0.01} \end{gathered}$ | $\left(\begin{array}{c} +0.01 \\ -0.01 \\ \binom{+0.01}{-0.01} \end{array}\right.$ | $\begin{gathered} 0.34_{-0.10}^{+0.14} \\ \binom{+0.15}{-0.11} \end{gathered}$ | $\left(\begin{array}{c} +0.11 \\ \binom{0.09}{{ }_{-0.129}^{+0.09}} \end{array}\right.$ | $\begin{gathered} { }_{-0.06}^{+0.08} \\ \binom{+0.09}{-0.06} \end{gathered}$ | $\begin{gathered} { }_{-0.02}^{+0.03} \\ \binom{+0.03}{-0.02} \end{gathered}$ | $\begin{gathered} { }_{-0.02}^{+0.03} \\ \binom{+0.03}{{ }_{-0.01}} \end{gathered}$ | $\begin{array}{r} 0.22{ }_{-0.08}^{+0.11} \\ \binom{+0.13}{-0.10} \end{array}$ | $\begin{gathered} +0.09 \\ \left(\begin{array}{c} +0.07 \\ +0.10 \\ -0.08 \end{array}\right) \end{gathered}$ | $\begin{gathered} +0.06 \\ -0.04 \\ \binom{+0.08}{-0.06} \end{gathered}$ | $\begin{gathered} { }_{-0.01}^{+0.01} \\ \binom{+0.03}{-0.01} \end{gathered}$ | $\begin{gathered} { }_{-0.01}^{+0.01} \\ \binom{+0.02}{-0.01} \end{gathered}$ |
| $\mathrm{B}^{b b} / \mathrm{B}^{W W}$ | $2.66 \pm 0.12$ | $\begin{array}{r} 0.61_{-0.38}^{+0.04} \\ \binom{+1.09}{-2.01} \\ \hline \end{array}$ | $\begin{gathered} +0.39 \\ \binom{0.29}{\left({ }_{-0.93}^{1.63}\right.} \end{gathered}$ | $\begin{gathered} +0.34 \\ -0.16 \\ \binom{+0.78}{-0.35} \end{gathered}$ | $\begin{gathered} +0.37 \\ (-0.18 \\ \binom{+0.84}{-0.42} \end{gathered}$ | $\begin{gathered} \begin{array}{c} +0.05 \\ -0.02 \\ \binom{+0.23}{-0.10} \end{array} \end{gathered}$ | $\begin{array}{r} 1.50_{-0.90}^{+1.54} \\ \binom{+3.38}{-3.39} \\ \hline \end{array}$ | $\begin{gathered} +1.06 \\ \binom{-0.66}{\left({ }_{-1.20}^{2.83}\right.} \end{gathered}$ | $\begin{gathered} +0.73 \\ { }_{-0.42}^{0} \\ \binom{+1.37}{-0.42} \end{gathered}$ | $\begin{gathered} +0.82 \\ -0.43 \\ \binom{+1.45}{-0.52} \\ \hline \end{gathered}$ | $\left.\begin{array}{c} +0.20 \\ (-0.09 \\ \left(\begin{array}{c} +0.15 \end{array}\right) \\ -0.04 \end{array}\right)$ | $\begin{array}{r} 0.52_{-0.34}^{+0.54} \\ \binom{+1.46}{-3.46} \\ \hline \end{array}$ | $\left.\begin{array}{c} +0.39 \\ -{ }_{-0.27}^{\prime} \\ \left(\begin{array}{c} +2.28 \end{array}\right) \\ -2.25 \end{array}\right)$ | $\begin{gathered} +0.25 \\ -0.13 \\ \binom{+0.58}{-0.49} \end{gathered}$ | $\begin{gathered} +0.28 \\ -0.14 \\ \binom{+1.56}{-0.58} \end{gathered}$ | $\begin{gathered} +0.05 \\ (-0.02 \\ \binom{+0.26}{-0.10} \end{gathered}$ |

Parameter
$\sigma(g g-$

