| MoG model with $d=5,\ q=3,\ and\ n=m=5\cdot 10^4$ | | | | | | |
|---|--|--|---------------------------------------|---|---|-------|
| | μ -deformation | | | Σ_{ii} -deformation | | |
| Statistic | $\epsilon_{95\%\mathrm{CL}}$ | $\epsilon_{99\%\mathrm{CL}}$ | t (s) | $\epsilon_{95\%\mathrm{CL}}$ | $\epsilon_{99\%\mathrm{CL}}$ | t (s) |
| $t_{ m SW}$ | $0.03867^{+0.015}_{-0.015}$ | $0.05335^{+0.015}_{-0.015}$ | 1312 | $0.01366^{+0.0039}_{-0.0044}$ | $0.01898^{+0.0035}_{-0.0039}$ | 1415 |
| $t_{\overline{	ext{KS}}}$ | $0.002^{+0.00077}_{-0.00083}$ | $0.00277^{+0.00075}_{-0.00076}$ | 1308 | $0.00121^{+0.00032}_{-0.00039}$ | $0.00157^{+0.00031}_{-0.00033}$ | 1315 |
| $t_{ m SKS}$ | $0.02325^{+0.0079}_{-0.0085}$ | $0.03165^{+0.0076}_{-0.0076}$ $0.06082^{+0.024}_{-0.018}$ | 1439 | $0.00731^{+0.0018}_{-0.0022}$ | $0.00993^{+0.0015}_{-0.0017}$ | 1539 |
| $t_{ m FGD}$ | $0.04381^{+0.026}_{-0.010}$ | $0.06082^{+0.024}_{-0.018}$ | 1536 | $\begin{array}{c} 0.0147^{+0.004}_{-0.0043} \\ 0.00629^{+0.0031}_{-0.0025} \end{array}$ | 0.00000000000000000000000000000000000 | 1610 |
| $t_{ m MMD}$ | $0.02669_{-0.011}^{+0.014}$ | $0.00082_{-0.018} \ 0.03545_{-0.011}^{+0.014}$ | 8990 | $0.00629^{+0.0031}_{-0.0025}$ | $0.02005_{-0.0035} \\ 0.00833_{-0.0023}^{+0.0029}$ | 9570 |
| $t_{ m LLR}$ | $0.00036^{+0.00019}_{-0.0002}$ | $0.0005^{+0.0002}_{-0.0002}$ | 2776 | $0.00011^{+7e-05}_{-8e-05}$ | $0.00016^{+8e-05}_{-8e-05}$ | 3063 |
| $\Sigma_{i \neq j}$ -deformation | | | pow_+ -deformation | | | |
| Statistic | $\epsilon_{95\%	ext{CL}}$ | $\epsilon_{99\%\mathrm{CL}}$ | t (s) | $\epsilon_{95\%\mathrm{CL}}$ | $\epsilon_{99\%\mathrm{CL}}$ | t (s) |
| $t_{ m SW}$ | $0.02657^{+0.0058}_{-0.0077}$ | $0.03639^{+0.005}_{-0.0059}$ | 1508 | $0.00841^{+0.0024}_{-0.0028}$ | $0.01169^{+0.0022}_{-0.0023}$ | 1462 |
| $t_{\overline{	ext{KS}}}$ | $\begin{array}{c} -0.00116^{+0.00055}_{-6e-05} \\ 0.02533^{+0.0073}_{-0.0088} \end{array}$ | $1.00165^{+0.00018}_{-0.00025}$ | 1404 | $0.00142^{+0.00043}_{-0.00049}$ | $0.00189^{+0.00041}_{-0.00043}$ | 1326 |
| $t_{ m SKS}$ | $0.02533^{+0.0073}_{-0.0088}$ | $\begin{array}{c} -0.00025 \\ 0.03416^{+0.0062}_{-0.0074} \\ \textbf{0.01443}^{+0.0017}_{-0.0022} \\ 0.02908^{+0.0094}_{-0.0079} \end{array}$ | 1630 | $0.00467^{+0.001}$ | $0.0063^{+0.00088}_{-0.01}$ | 1552 |
| $t_{ m FGD}$ | $0.01034^{+0.0023}_{-0.0025}$ | $0.01443^{+0.0017}_{-0.0022}$ | 2060 | $\begin{array}{c} 0.00167_{-0.0013} \\ 0.0089_{-0.0027}^{+0.0026} \\ 0.00361_{-0.0014}^{+0.0019} \end{array}$ | $\begin{array}{c} 0.01216^{+0.0023}_{-0.0023} \\ 0.00478^{+0.0018}_{-0.0024} \end{array}$ | 1790 |
| $t_{ m MMD}$ | $0.02201^{+0.0099}_{-0.0084}$ | $0.02908^{+0.0094}_{-0.0079}$ | 9396 | $0.00361^{+0.0019}_{-0.0014}$ | $0.00478^{+0.0018}_{-0.0014}$ | 9705 |
| $t_{ m LLR}$ | - | - | - | $\begin{array}{c} 0.00301_{-0.0014} \\ 0.00017_{-9e-05}^{+0.0001} \end{array}$ | $\begin{array}{c} 0.00478_{-0.0014} \\ 0.00025_{-0.0001}^{+0.0001} \end{array}$ | 2854 |
| $pow\deformation$ | | | $\mathcal{N}	ext{-}	ext{deformation}$ | | | |
| Statistic | $\epsilon_{95\%	ext{CL}}$ | $\epsilon_{99\%\mathrm{CL}}$ | t (s) | $\epsilon_{95\%	ext{CL}}$ | $\epsilon_{99\%\mathrm{CL}}$ | t (s) |
| $t_{ m SW}$ | $0.00858^{+0.0024}_{-0.0029}$ | $0.01188^{+0.0023}_{-0.0024}$ | 1466 | $0.16467^{+0.02}_{-0.029}$ | $0.19494^{+0.015}_{-0.019}$ | 1187 |
| $t_{\overline{	ext{KS}}}$ | $0.00142^{+0.00045}$ | $0.00188^{+0.00042}_{-0.00044}$ | 1320 | $0.00546^{+0.00092}_{-0.0012}$ | $0.00651^{+0.00087}_{-0.0009}$ | 1226 |
| $t_{ m SKS}$ | $0.0048^{+0.0011}_{-0.0014}$ | $0.00642^{+0.001}_{-0.0011}$ | 1562 | $0.11614^{+0.016}_{-0.024}$ | $0.1371^{+0.013}_{-0.017}$ | 1321 |
| $t_{ m FGD}$ | $0.0091^{+0.0025}_{-0.0026}$ | $0.01247^{+0.0022}_{-0.0022}$ | 1789 | $0.1925^{+0.019}_{-0.027}$ | $0.22617^{+0.014}_{-0.016}$ | 1452 |
| $t_{ m MMD}$ | $0.00374_{-0.0016}^{+0.0019}$ | $0.00492^{+0.0019}_{-0.0015}$ | 9724 | $0.25293_{-0.048}^{+0.036}$ | $0.28868^{+0.032}_{-0.032}$ | 8612 |
| $t_{ m LLR}$ | $0.00018^{+0.0001}_{-0.0001}$ | $0.00025^{+0.0001}_{-0.0001}$ | 2850 | - | - | - |
| $\mathcal{U}	ext{-}	ext{deformation}$ | | | Timing | | | |
| Statistic | $\epsilon_{95\%	ext{CL}}$ | $\epsilon_{99\%\mathrm{CL}}$ | t (s) | t^{null} (s) | | |
| $t_{ m SW}$ | $\begin{array}{c} 0.28418^{+0.035}_{-0.05} \\ 0.00924^{+0.0015}_{-0.0019} \end{array}$ | $0.33591^{+0.027}_{-0.033}$ | 1344 | 319 | | |
| $t_{\overline{	ext{KS}}}$ | $igg \ 0.00924^{+0.0015}_{-0.0019}$ | $\begin{array}{c} \textbf{0.01096} \begin{array}{c} -0.033 \\ \textbf{0.01096} \begin{array}{c} +0.0013 \\ -0.0015 \end{array} \\ 0.23402 \begin{array}{c} +0.023 \\ -0.029 \\ 0.39255 \begin{array}{c} +0.022 \\ -0.028 \end{array} \\ 0.024 \end{array}$ | 1208 | 49 | | |
| $t_{ m SKS}$ | $ \begin{array}{c} 0.19824^{+0.029}_{-0.04} \\ 0.33191^{+0.034}_{-0.044} \end{array} $ | $0.23402^{+0.023}_{-0.029}$ | 1271 | 484 | | |
| $t_{ m FGD}$ | $0.33191^{+0.034}_{-0.044}$ | $0.39255^{+0.022}_{-0.028}$ | 1433 | 1150 | | |
| $t_{ m MMD}$ | $0.43535^{+0.067}_{-0.079}$ | $0.5005^{+0.054}_{-0.057}$ | 7010 | 13839 | | |
| $t_{ m LLR}$ | _ | - | - | - | | |