

| MoG model with $d = 100$, $q = 10$, and $n = m = 2 \cdot 10^4$ | | | | | | |
|--|--|---|-------------|---------|---|---|
| Statistic | μ -deformation | | | t (s) | Σ_{ii} -deformation | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ |
| t_{SW} | $0.06686^{+0.019}_{-0.023}$ | $0.08691^{+0.017}_{-0.019}$ | 698 | | $0.02176^{+0.0058}_{-0.0075}$ | $0.02825^{+0.0052}_{-0.006}$ |
| $t_{\overline{KS}}$ | $0.0052^{+0.0021}_{-0.0021}$ | $0.00766^{+0.0022}_{-0.0023}$ | 1312 | | $0.00132^{+0.00073}_{-0.00062}$ | $0.00216^{+0.00083}_{-0.00078}$ |
| t_{SKS} | $0.05483^{+0.014}_{-0.017}$ | $0.07079^{+0.012}_{-0.014}$ | 737 | | $0.01903^{+0.0038}_{-0.0051}$ | $0.02404^{+0.0031}_{-0.0037}$ |
| t_{FGD} | $0.0917^{+0.024}_{-0.025}$ | $0.11605^{+0.021}_{-0.022}$ | 5212 | | $0.02962^{+0.0062}_{-0.0077}$ | $0.03721^{+0.005}_{-0.0056}$ |
| t_{MMD} | $0.08171^{+0.015}_{-0.019}$ | $0.10334^{+0.013}_{-0.014}$ | 1992 | | $0.01681^{+0.0034}_{-0.0038}$ | $0.02112^{+0.0029}_{-0.0031}$ |
| t_{NPLM} | $0.00673^{+0.0019}_{-0.0024}$ | $0.00815^{+0.0017}_{-0.0019}$ | 3189 | | $0.00208^{+0.0006}_{-0.00078}$ | $0.00253^{+0.00053}_{-0.0006}$ |
| t_{LLR} | $6e-05^{+4e-05}_{-4e-05}$ | $9e-05^{+4e-05}_{-4e-05}$ | 5633 | | $1e-05^{+1e-05}_{-1e-05}$ | $2e-05^{+1e-05}_{-1e-05}$ |
| Statistic | $\Sigma_{i \neq j}$ -deformation | | | t (s) | pow ₊ -deformation | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ |
| t_{SW} | $0.03936^{+0.01}_{-0.014}$ | $0.05165^{+0.0081}_{-0.01}$ | 3389 | | $0.00863^{+0.0022}_{-0.0029}$ | $0.01123^{+0.002}_{-0.0024}$ |
| $t_{\overline{KS}}$ | $1.00219^{+0.00074}_{-0.0017}$ | $1.00219^{+0.00098}_{-0.00042}$ | 10626 | | $0.00049^{+0.0003}_{-0.00024}$ | $0.00084^{+0.00031}_{-0.00032}$ |
| t_{SKS} | $0.04286^{+0.011}_{-0.015}$ | $0.0552^{+0.0099}_{-0.012}$ | 3693 | | $0.0077^{+0.0013}_{-0.002}$ | $0.00961^{+0.0011}_{-0.0013}$ |
| t_{FGD} | $0.0069^{+0.0015}_{-0.0018}$ | $0.00879^{+0.0013}_{-0.0014}$ | 9386 | | $0.01177^{+0.0023}_{-0.0029}$ | $0.01473^{+0.002}_{-0.0023}$ |
| t_{MMD} | $0.02739^{+0.0079}_{-0.0088}$ | $0.0351^{+0.007}_{-0.0078}$ | 6531 | | $0.00608^{+0.0012}_{-0.0014}$ | $0.00762^{+0.0011}_{-0.0011}$ |
| t_{NPLM} | $0.0033^{+0.0013}_{-0.0014}$ | $0.0042^{+0.0012}_{-0.0012}$ | 6951 | | $0.00079^{+0.00023}_{-0.0003}$ | $0.00097^{+0.00019}_{-0.00024}$ |
| t_{LLR} | - | - | - | | 0.0^{+1e-05}_{-0} | $1e-05^{+0}_{-1e-05}$ |
| Statistic | pow ₋ -deformation | | | t (s) | \mathcal{N} -deformation | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ |
| t_{SW} | $0.00879^{+5}_{-0.003}$ | $0.01149^{+5}_{-0.0025}$ | 703 | | $0.27003^{+0.034}_{-0.053}$ | $0.31096^{+0.026}_{-0.036}$ |
| $t_{\overline{KS}}$ | $0.0005^{+0.00031}_{-0.00025}$ | $0.00085^{+0.00033}_{-0.00034}$ | 832 | | $0.01686^{+0.0067}_{-0.0081}$ | $0.02454^{+0.0062}_{-0.0071}$ |
| t_{SKS} | $0.00767^{+0.0014}_{-0.0021}$ | $0.00962^{+0.0011}_{-0.0015}$ | 840 | | $0.23297^{+0.032}_{-0.049}$ | $0.26623^{+0.028}_{-0.034}$ |
| t_{FGD} | $0.0118^{+0.0024}_{-0.003}$ | $0.01489^{+0.002}_{-0.0023}$ | 4175 | | $0.23954^{+0.023}_{-0.034}$ | $0.26901^{+0.019}_{-0.021}$ |
| t_{MMD} | $0.00568^{+0.0017}_{-0.0018}$ | $0.00733^{+0.0015}_{-0.0015}$ | 2584 | | $1.01706^{+0.091}_{-0.13}$ | $1.14737^{+0.064}_{-0.077}$ |
| t_{NPLM} | $0.00087^{+0.00026}_{-0.00033}$ | $0.00105^{+0.00022}_{-0.00027}$ | 3517 | | $0.16947^{+0.04}_{-0.057}$ | $0.20016^{+0.034}_{-0.041}$ |
| t_{LLR} | 0.0^{+1e-05}_{-0} | $1e-05^{+0}_{-1e-05}$ | 7345 | | - | - |
| Statistic | \mathcal{U} -deformation | | | t (s) | Timing | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | t^{null} (s) | |
| t_{SW} | $0.46758^{+0.057}_{-0.092}$ | $0.53846^{+0.045}_{-0.062}$ | 626 | | 313 | |
| $t_{\overline{KS}}$ | $0.02575^{+0.01}_{-0.012}$ | $0.03716^{+0.0098}_{-0.01}$ | 716 | | 545 | |
| t_{SKS} | $0.40136^{+0.059}_{-0.083}$ | $0.46142^{+0.05}_{-0.057}$ | 687 | | 618 | |
| t_{FGD} | $0.41583^{+0.039}_{-0.059}$ | $0.46699^{+0.033}_{-0.04}$ | 3032 | | 7869 | |
| t_{MMD} | $1.75184^{+0.17}_{-0.22}$ | $1.9784^{+0.13}_{-0.15}$ | 1931 | | 2411 | |
| t_{NPLM} | $0.29536^{+0.073}_{-0.1}$ | $0.34557^{+0.053}_{-0.066}$ | 2439 | | 4682 | |
| t_{LLR} | - | - | - | | - | |