

| $\mathbf{n} = \mathbf{m} = 10^4$ | | | | | | |
|----------------------------------|----------------------------------|---------------------------------|---------|---------|---------------------------------|---------------------------------|
| Statistic | μ -deformation | | | t (s) | Σ_{ii} -deformation | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ |
| t_{LLR} | $0.00054^{+0.00031}_{-0.00031}$ | $0.00074^{+0.00031}_{-0.00031}$ | 3524 | | $0.00017^{+0.00012}_{-0.00013}$ | $0.00025^{+0.00012}_{-0.00012}$ |
| \overline{D} | $0.00323^{+0.0012}_{-0.0013}$ | $0.00453^{+0.0011}_{-0.0012}$ | 1305 | | $0.00187^{+0.00049}_{-0.00058}$ | $0.00247^{+0.00044}_{-0.00049}$ |
| \widetilde{D} | $0.03829^{+0.013}_{-0.013}$ | $0.05211^{+0.013}_{-0.012}$ | 1566 | | $0.01144^{+0.0027}_{-0.0035}$ | $0.01578^{+0.0024}_{-0.0026}$ |
| $d_{MMD^2_u}$ | $0.04409^{+0.023}_{-0.016}$ | $0.05957^{+0.022}_{-0.016}$ | 1908 | | $0.01045^{+0.0043}_{-0.0036}$ | $0.01406^{+0.004}_{-0.0033}$ |
| \widetilde{W} | $0.06429^{+0.021}_{-0.021}$ | $0.08858^{+0.021}_{-0.02}$ | 1309 | | $0.02167^{+0.0065}_{-0.0076}$ | $0.03029^{+0.0061}_{-0.0067}$ |
| d_{FGD_∞} | $0.07491^{+0.041}_{-0.029}$ | $0.10089^{+0.039}_{-0.028}$ | 1265 | | $0.02357^{+0.0063}_{-0.007}$ | $0.03187^{+0.0055}_{-0.0054}$ |
| Statistic | $\Sigma_{i \neq j}$ -deformation | | | t (s) | pow ₊ -deformation | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ |
| t_{LLR} | $4e-05^{+3e-05}_{-2e-05}$ | $6e-05^{+3e-05}_{-3e-05}$ | 3531 | | $0.00029^{+0.00016}_{-0.00016}$ | $0.00039^{+0.00017}_{-0.00016}$ |
| \overline{D} | $0.00064^{+0.00019}_{-0.0002}$ | $0.00086^{+0.00019}_{-0.00018}$ | 1056 | | $0.00225^{+0.00067}_{-0.00076}$ | $0.00301^{+0.00069}_{-0.00066}$ |
| \widetilde{D} | $0.00449^{+0.0013}_{-0.0016}$ | $0.00628^{+0.0013}_{-0.0013}$ | 1473 | | $0.00744^{+0.0016}_{-0.0021}$ | $0.01008^{+0.0014}_{-0.0015}$ |
| $d_{MMD^2_u}$ | $0.0062^{+0.0035}_{-0.003}$ | $0.00889^{+0.0033}_{-0.0028}$ | 2208 | | $0.00603^{+0.0027}_{-0.0021}$ | $0.00804^{+0.0025}_{-0.002}$ |
| \widetilde{W} | $0.00814^{+0.0022}_{-0.0027}$ | $0.01164^{+0.002}_{-0.0022}$ | 1144 | | $0.01344^{+0.0038}_{-0.0045}$ | $0.01867^{+0.0035}_{-0.0038}$ |
| d_{FGD_∞} | $0.00815^{+0.0021}_{-0.0026}$ | $0.01145^{+0.0018}_{-0.002}$ | 1054 | | $0.01441^{+0.004}_{-0.0041}$ | $0.01943^{+0.0036}_{-0.0033}$ |
| Statistic | pow ₋ -deformation | | | t (s) | \mathcal{N} -deformation | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ |
| t_{LLR} | $0.00026^{+0.00016}_{-0.00017}$ | $0.00039^{+0.00016}_{-0.00016}$ | 3593 | | NaN | NaN |
| \overline{D} | $0.00223^{+0.00071}_{-0.00076}$ | $0.003^{+0.00065}_{-0.0007}$ | 1402 | | $0.00728^{+0.0012}_{-0.0015}$ | $0.00877^{+0.0012}_{-0.0013}$ |
| $d_{MMD^2_u}$ | $0.00523^{+0.0029}_{-0.0024}$ | $0.00739^{+0.0027}_{-0.0023}$ | 3254 | | $0.3198^{+0.042}_{-0.053}$ | $0.37039^{+0.037}_{-0.037}$ |
| \widetilde{D} | $0.00721^{+0.002}_{-0.0024}$ | $0.00984^{+0.0017}_{-0.0019}$ | 1755 | | $0.14872^{+0.025}_{-0.032}$ | $0.17799^{+0.019}_{-0.023}$ |
| \widetilde{W} | $0.01322^{+0.0042}_{-0.0048}$ | $0.01865^{+0.0038}_{-0.0041}$ | 1442 | | $0.21144^{+0.028}_{-0.04}$ | $0.25259^{+0.02}_{-0.027}$ |
| d_{FGD_∞} | $0.01351^{+0.0046}_{-0.0051}$ | $0.01876^{+0.0042}_{-0.0041}$ | 1403 | | $0.24435^{+0.028}_{-0.04}$ | $0.2852^{+0.02}_{-0.024}$ |
| Statistic | \mathcal{U} -deformation | | | t (s) | Timing | |
| | $\epsilon_{95\%CL}$ | $\epsilon_{99\%CL}$ | | | t^{null} (s) | |
| d_{FGD_∞} | $0.4208^{+0.05}_{-0.07}$ | $0.49461^{+0.036}_{-0.043}$ | 1.1e+03 | | 637 | |
| \overline{D} | $0.01199^{+0.002}_{-0.0022}$ | $0.0143^{+0.0019}_{-0.0019}$ | 1.3e+03 | | 42 | |
| $d_{MMD^2_u}$ | $0.55193^{+0.079}_{-0.085}$ | $0.64396^{+0.059}_{-0.064}$ | 1.5e+03 | | 1276 | |
| \widetilde{D} | $0.2538^{+0.042}_{-0.054}$ | $0.30376^{+0.032}_{-0.04}$ | 1.4e+03 | | 392 | |
| \widetilde{W} | $0.3659^{+0.046}_{-0.07}$ | $0.43228^{+0.037}_{-0.044}$ | 1.2e+03 | | 289 | |
| t_{LLR} | NaN | NaN | NaN | | - | |