$n=m=10^4$						
	$\mu$ -deformation			$\Sigma_{ii}$ -deformation		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m LLR}$	$0.00541^{+0.0033}_{-0.0032}$	$0.00768^{+0.0033}_{-0.0032}$	2276	$0.00101^{+0.00073}_{-0.00071}$	$0.0015^{+0.00073}_{-0.00071}$	2564
$d_{\mathrm{MMD}_u^2}$	$0.05661^{+0.03}_{-0.026}$	$0.07172_{-0.024}^{-0.0032}$	1162	$0.0369_{-0.016}^{+0.016}$	$\begin{array}{c} 0.0015^{+0.00073}_{-0.00071} \\ 0.04633^{+0.015}_{-0.014} \end{array}$	1256
$\overline{D}$	$0.08229_{-0.033}^{+0.027}$	$0.10339_{-0.028}^{+0.025}$	651	$0.03958^{+0.015}_{-0.018}$	$0.05039_{-0.016}^{+0.014}$	688
$\widetilde{W}$	$0.08359_{-0.034}^{+0.028}$	$0.10651^{+0.025}_{-0.028}$	844	$0.03133^{+0.012}_{-0.014}$	$0.03977^{+0.011}_{-0.012}$	888
$\widetilde{D}$	$0.08589^{+0.029}_{-0.027}$	$0.10945^{+0.026}_{-0.03}$	941	$0.04009^{+0.015}_{-0.010}$	$0.05107^{+0.014}_{-0.016}$	1026
$d_{\mathrm{FGD}_{\infty}}$	$0.09233_{-0.033}^{+0.032}$	$0.11682^{+0.039}_{-0.027}$	3408	$0.02875^{+0.01}_{-0.011}$	$0.03664^{+0.0092}_{-0.0087}$	3738
$\Sigma_{i \neq j}$ -deformation			$pow_+$ -deformation			
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m LLR}$	$\begin{array}{c} 4e - 05 + 3e - 05 \\ -2e - 05 \\ 0.00341 + 0.00091 \\ -0.0011 \\ 0.0034 \end{array}$	$6e - 05^{+3e - 05}_{-3e - 05}$	3372	$\begin{array}{c} 0.00038^{+0.00019}_{-0.0002} \\ 0.00707^{+0.0025}_{-0.0025} \end{array}$	$\begin{array}{c} 0.00052^{+0.00019}_{-0.00019} \\ 0.00898^{+0.0022}_{-0.0021} \\ 0.00569^{+0.0022}_{-0.0019} \end{array}$	2639
$d_{\mathrm{FGD}_{\infty}}$	$0.00341^{+0.00091}_{-0.0011}$	$0.00438^{+0.00077}_{-0.00088}$	4052	$0.00707^{+0.0025}_{-0.0025}$	$0.00898^{+0.0022}_{-0.0021}$	4281
$d_{\mathrm{MMD}_u^2}$	$0.02391^{+0.0084}_{-0.0083}$	$0.02992^{+0.008}_{-0.0075}$	1139	$0.00447^{+0.0024}_{-0.0021}$	$0.00569^{+0.0022}_{-0.0019}$	1027
$\widetilde{\widetilde{W}}$ $\widetilde{\widetilde{D}}$	$0.03515^{+0.011}_{-0.015}$	$0.0461^{+0.01}_{-0.012}$	885	$0.00693^{+0.0024}_{-0.003}$	$0.0088^{+0.0022}_{-0.0024}$	944
	$0.0402^{+0.016}_{-0.019}$	$0.05406_{-0.017}^{+0.014} \\ 1.02919_{-0.003}^{+0.003}$	1009	$\begin{array}{c} 0.00784^{+0.0026}_{-0.0034} \\ 0.00853^{+0.0028}_{-0.0035} \end{array}$	$0.00985^{+0.0024}_{-0.0026}$	1108
$\overline{D}$	$1.02012_{-0.003}^{+0.01}$	$1.02919^{+0.003}_{-0.003}$	509	$0.00853^{+0.0028}_{-0.0035}$	$0.01068^{+0.0025}_{-0.0029}$	877
$pow\deformation$			$\mathcal{N} ext{-deformation}$			
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m LLR}$	$0.00033^{+0.00019}_{-0.0002}$	$\begin{array}{c} 0.00047^{+0.00019}_{-0.0002} \\ 0.00664^{+0.0022}_{-0.0018} \end{array}$	2710	NaN	NaN	NaN
$d_{\mathrm{MMD}_u^2}$	$0.00537^{+0.0023}_{-0.002}$	$0.00664^{+0.0022}_{-0.0018}$	1038	$1.21562^{+0.16}_{-0.25}$	$1.35657^{+0.13}_{-0.16}$	8e + 02
$d_{\mathrm{FGD}_{\infty}}$	$0.00686^{+0.0026}_{-0.0026}$	$0.00886^{+0.0023}_{-0.0023}$	4378	$0.23754_{-0.045}^{+0.029}$	$0.26842^{+0.023}_{-0.03}$	3.3e + 03
$\widetilde{\widetilde{W}}$	$0.00702^{+5}_{-0.0032}$	$0.00889^{+5}_{-0.0026}$	862	$0.4895^{+0.084}_{-0.13}$	$0.55438^{+0.069}_{-0.087}$	7.6e + 02
$\widetilde{\underline{D}}$	$\begin{array}{c} 0.00765^{+0.0027}_{-0.0036} \\ 0.00823^{+0.0028}_{-0.0035} \end{array}$	$0.00961^{+0.0024}_{-0.0028}$	1119	$0.53076_{-0.16}^{+0.092} \\ 0.55303_{-0.14}^{+0.094}$	$0.60111^{+0.075}_{-0.012}$	9e + 02
$\overline{D}$	$0.00823^{+0.0028}_{-0.0035}$	$0.00961_{-0.0028} \\ 0.01034_{-0.0029}^{+0.0025}$	878	$0.55303^{+0.094}_{-0.14}$	$0.60111_{-0.1} \\ 0.6216_{-0.098}^{+0.083}$	7e+02
$\mathcal{U} ext{-deformation}$				Timing		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$t^{\text{null}}$ (s)		
$d_{\mathrm{FGD}_{\infty}}$	$0.41168^{+0.048}_{-0.076}$	$0.4652^{+0.039}_{-0.051}$	3.2e + 03	5381		
$\overline{D}$	$-0.05024\pm0.17$	$1.07042^{+0.14}_{-0.17}$	6.8e + 02	491		
$\frac{d_{\mathrm{MMD}_{u}^{2}}}{\widetilde{D}}$	$0.95234_{-0.24}^{+0.24} \\ 2.08745_{-0.41}^{+0.3}$	$2.34223^{+0.24}_{-0.27}$	7.5e + 02	633		
	$0.91554_{-0.25}^{+0.16}$	$1.04113^{+0.13}_{-0.19}$	8.8e + 02	468		
$\widetilde{W}$	$0.84895^{+0.14}_{-0.22}$	$0.96147^{+0.12}_{-0.15}$	7.1e + 02	275		
$t_{ m LLR}$	NaN	NaN	NaN			