

$\mathbf{n} = \mathbf{m} = 10^4$						
Statistic	μ -deformation			Σ_{ii} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{LLR}	$0.01214^{+0.0077}_{-0.0077}$	$0.0172^{+0.0078}_{-0.0077}$	947	$0.00388^{+0.0021}_{-0.0021}$	$0.00519^{+0.0021}_{-0.0021}$	1023
$d_{FGD\infty}$	$0.10722^{+0.053}_{-0.044}$	$0.14391^{+0.049}_{-0.04}$	674	$0.03724^{+0.015}_{-0.014}$	$0.04968^{+0.014}_{-0.012}$	718
\overline{D}	$0.10878^{+0.041}_{-0.041}$	$0.1457^{+0.038}_{-0.039}$	395	$0.06569^{+0.022}_{-0.024}$	$0.08903^{+0.021}_{-0.021}$	437
\widetilde{W}	$0.10922^{+0.046}_{-0.042}$	$0.14806^{+0.045}_{-0.041}$	837	$0.04571^{+0.015}_{-0.017}$	$0.0619^{+0.014}_{-0.014}$	885
\widetilde{D}	$0.11095^{+0.042}_{-0.041}$	$0.14448^{+0.042}_{-0.039}$	752	$0.0585^{+0.02}_{-0.021}$	$0.07738^{+0.018}_{-0.019}$	793
$d_{MMD_u^2}$	$0.13235^{+0.087}_{-0.058}$	$0.18033^{+0.081}_{-0.057}$	481	$0.05044^{+0.038}_{-0.023}$	$0.06855^{+0.035}_{-0.023}$	525
Statistic	$\Sigma_{i \neq j}$ -deformation			pow ₊ -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{LLR}	$0.00016^{+0.00011}_{-0.0001}$	$0.00023^{+0.0001}_{-0.00011}$	1296	$0.00097^{+0.00057}_{-0.00057}$	$0.00133^{+0.00058}_{-0.00057}$	1265
$d_{FGD\infty}$	$0.00531^{+0.0014}_{-0.0018}$	$0.00722^{+0.0012}_{-0.0013}$	783	$0.00904^{+0.004}_{-0.0035}$	$0.01206^{+0.0035}_{-0.0031}$	766
$d_{MMD_u^2}$	$0.02358^{+0.023}_{-0.016}$	$0.03554^{+0.022}_{-0.016}$	561	$0.00794^{+0.0059}_{-0.0037}$	$0.01072^{+0.0056}_{-0.0036}$	562
\widetilde{D}	$0.02427^{+0.0088}_{-0.0095}$	$0.03483^{+0.0085}_{-0.0089}$	839	$0.01131^{+0.0038}_{-0.0039}$	$0.01462^{+0.0034}_{-0.0036}$	855
\widetilde{W}	$0.026^{+0.0077}_{-0.0095}$	$0.0386^{+0.0068}_{-0.0077}$	841	$0.01011^{+0.0037}_{-0.0037}$	$0.01382^{+0.0034}_{-0.0034}$	1006
\overline{D}	$1.0302^{+0.0074}_{-0.009}$	$1.03533^{+0.015}_{-0.0035}$	301	$0.01342^{+0.0044}_{-0.0046}$	$0.01781^{+0.004}_{-0.004}$	462
Statistic	pow ₋ -deformation			\mathcal{N} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{LLR}	$0.0009^{+0.00057}_{-0.00058}$	$0.00129^{+0.00057}_{-0.00058}$	1055	NaN	NaN	NaN
$d_{MMD_u^2}$	$0.00626^{+0.0064}_{-0.0042}$	$0.00942^{+0.0059}_{-0.0042}$	590	$1.07127^{+0.17}_{-0.21}$	$1.26293^{+0.14}_{-0.14}$	4.5e+02
$d_{FGD\infty}$	$0.00894^{+0.0043}_{-0.0037}$	$0.01218^{+0.0038}_{-0.0034}$	766	$0.25332^{+0.031}_{-0.044}$	$0.29566^{+0.021}_{-0.028}$	6.2e+02
\widetilde{W}	$0.00994^{+10}_{-0.0041}$	$0.0137^{+10}_{-0.0037}$	477	$0.42914^{+0.071}_{-0.094}$	$0.50927^{+0.058}_{-0.064}$	4.4e+02
\widetilde{D}	$0.01084^{+0.0039}_{-0.0043}$	$0.01413^{+0.0036}_{-0.0039}$	874	$0.42867^{+0.072}_{-0.09}$	$0.49965^{+0.059}_{-0.072}$	8.6e+02
\overline{D}	$0.01288^{+0.0046}_{-0.0051}$	$0.01711^{+0.0041}_{-0.0045}$	568	$0.48722^{+0.077}_{-0.11}$	$0.58312^{+0.061}_{-0.08}$	4.6e+02
Statistic	\mathcal{U} -deformation			Timing		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	t^{null} (s)		
$d_{FGD\infty}$	$0.4427^{+0.051}_{-0.077}$	$0.50983^{+0.038}_{-0.043}$	5.5e+02	596		
\overline{D}	$0.82685^{+0.14}_{-0.16}$	$0.98617^{+0.1}_{-0.13}$	4.7e+02	91		
$d_{MMD_u^2}$	$1.84547^{+0.31}_{-0.37}$	$2.19008^{+0.25}_{-0.22}$	5e+02	210		
\widetilde{D}	$0.73953^{+0.12}_{-0.16}$	$0.86741^{+0.11}_{-0.13}$	8.5e+02	338		
\widetilde{W}	$0.74247^{+0.12}_{-0.16}$	$0.88112^{+0.1}_{-0.11}$	4.2e+02	255		
t_{LLR}	NaN	NaN	NaN	-		