$n=m=10^4$						
	μ -deformation			Σ_{ii} -deformation		
Statistic	$\epsilon_{ m 95\%CL}$	$\epsilon_{99\% ext{CL}}$	t (s)	$\mid \epsilon_{95\%{ m CL}}$	$\epsilon_{99\% ext{CL}}$	t (s)
$\overline{t_{ m LLR}}$	$0.00379^{+0.0026}_{-0.0026}$	$0.0055^{+0.0026}_{-0.0026}$	3816	$0.00074^{+0.00053}_{-0.00053}$	$0.00108^{+0.00052}_{-0.00053}$	4378
$d_{\mathrm{MMD}_{u}^{2}}$	$0.04176^{+0.022}_{-0.018}$	$0.05326^{+0.021}_{-0.017}$	1932	$0.02689_{-0.01}^{+0.0033}$	$0.03445^{+0.011}_{-0.0094}$	1958
\overline{D}	$0.05834_{-0.022}^{+0.019}$	$0.07252^{+0.019}_{-0.019}$	801	$0.02825^{+0.0094}_{-0.01}$	$0.03574_{-0.0095}^{+0.0034}$	861
$\overset{-}{\widetilde{W}}$	$0.05955^{+0.021}_{-0.023}$	$0.07615^{+0.019}_{-0.02}$	889	$0.0225^{+0.0073}_{-0.0082}$	$0.02867^{+0.0068}_{-0.0069}$	952
\widetilde{D}	$0.06195^{+0.021}_{-0.023}$	$0.07913_{-0.021}^{+0.019}$	1198	$0.02901^{+0.0093}_{-0.011}$	$0.03683^{+0.0086}_{-0.0092}$	1080
$d_{\mathrm{FGD}_{\infty}}$	$\begin{array}{c} 0.06195^{+0.021}_{-0.023} \\ 0.06396^{+0.025}_{-0.024} \end{array}$	$0.07913^{+0.019}_{-0.021} \\ 0.07971^{+0.022}_{-0.021}$	5358	$\begin{array}{c} 0.02901^{+0.0093}_{-0.011} \\ 0.02023^{+0.0075}_{-0.0082} \end{array}$	$\begin{array}{c} 0.03683^{+0.0086}_{-0.0092} \\ 0.02523^{+0.0066}_{-0.0069} \end{array}$	5466
$\Sigma_{i \neq j}$ -deformation			pow_+ -deformation			
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m LLR}$	$3e - 05^{+2e-05}_{-2e-05}$	$4e - 05^{+2e-05}_{-2e-05}$	5628	$0.00021^{+0.00015}_{-0.00015}$	$0.00032^{+0.00015}_{-0.00015}$	4340
$d_{\mathrm{FGD}_{\infty}}$	$0.00239^{+0.00064}_{-0.00081}$	$0.00299^{+0.00054}_{-0.00063}$	6362	$0.00494^{+0.0019}_{-0.002}$	$0.00613^{+0.0018}_{-0.0017}$	6350
$d_{\mathrm{MMD}_u^2}$	$0.01597^{+0.0065}_{-0.0061}$	$0.02031_{-0.0054}^{+0.0061}$	1993	$0.00332^{+0.0018}_{-0.0014}$	$0.00423^{+0.0017}_{-0.0013}$	2150
$\widetilde{\widetilde{W}}$ $\widetilde{\widetilde{D}}$	$0.02522^{+0.0067}_{-0.0084}$	$0.03331^{+0.0057}_{-0.0068}$	909	$0.00495^{+0.0017}_{-0.0019}$	$0.00629^{+0.0017}_{-0.0016}$	977
	$0.02906^{+0.0095}_{-0.011}$	$0.03857^{+0.0087}_{-0.0096}$	1090	$0.00572^{+0.0019}_{-0.0021}$	$0.00714^{+0.0018}_{-0.0018}$	1179
\overline{D}	$1.0119_{-0.003}^{+0.0062}$	$1.0209^{+0.003}_{-0.003}$	551	$0.00613^{+0.0019}_{-0.0022}$	$0.00754_{-0.0019}^{+0.0018}$	895
$pow\deformation$			$\mathcal{N} ext{-} ext{deformation}$			
Statistic	$\epsilon_{95\%{ m CL}}$	$\epsilon_{99\% ext{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m LLR}$	$\begin{array}{c} 0.00028^{+0.00015}_{-0.00015} \\ 0.00353^{+0.0019}_{-0.0016} \end{array}$	$0.00039^{+0.00015}_{-0.00015}$	4140	NaN	NaN	NaN
$d_{\mathrm{MMD}_{u}^{2}}$	$0.00353^{+0.0019}_{-0.0016}$	$0.0045^{+0.0018}_{-0.0014}$	2115	$1.01973^{+0.13}_{-0.17}$	$1.1523^{+0.097}_{-0.11}$	1.6e + 03
$d_{\mathrm{FGD}_{\infty}}$	$0.00508^{+0.0017}_{-0.0018}$	$0.00625^{+0.0016}_{-0.0015}$	6609	$0.1987^{+0.025}_{-0.037}$	$0.22055^{+0.021}_{-0.025}$	5.1e + 03
\widetilde{W}	$0.00508^{+5}_{-0.0017}$	$0.00647^{+5}_{-0.0015}$	915	$0.41334^{+0.062}_{-0.084}$	$0.46898^{+0.052}_{-0.058}$	8e + 02
$\widetilde{\underline{D}}$	$\begin{array}{c} 0.00563^{+0.0017}_{-0.002} \\ 0.00597^{+0.0019}_{-0.0021} \end{array}$	$0.00704^{+0.0016}_{-0.0017}$	1184	$0.44843^{+0.067}_{-0.096}$	$0.50879^{+0.057}_{-0.069}$	9.3e + 02
\overline{D}	$0.00597^{+0.0019}_{-0.0021}$	$0.0074^{+0.0017}_{-0.0018}$	899	$0.46482^{+0.07}_{-0.097}$	$0.52444^{+0.056}_{-0.075}$	7.3e + 02
$\mathcal{U} ext{-deformation}$				Timing		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\% ext{CL}}$	t (s)	t^{null} (s)		
$d_{\mathrm{FGD}_{\infty}}$	$0.34266^{+0.043}_{-0.065}$	$0.38262^{+0.033}_{-0.044}$	4.3e+03	7457		
\overline{D}	$0.80534^{+0.12}_{-0.17}$	0.00299 ± 0.1	7.1e + 02	527		
$d_{\mathrm{MMD}_u^2} \ \widetilde{D}$	$1.76762_{-0.3}^{+0.21}$	$0.90238_{-0.13} \\ 1.99743_{-0.19}^{+0.17}$	1.5e + 03	2390		
	$0.77724_{-0.16}^{+0.12}$	$0.88187^{+0.098}_{-0.13}$	9.1e + 02	592		
\widetilde{W}	$0.71388^{+0.11}_{-0.14}$	$0.81581^{+0.084}_{-0.1}$	7.7e + 02	294		
$t_{ m LLR}$	NaN	NaN	NaN	-		