$\begin{tabular}{ll} \hline MoG model with d = 20, q = 5, and n = m = 10^5 \\ \hline \end{tabular}$						
	μ -deformation			Σ_{ii} -deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.03313^{+0.013}_{-0.014} \\ 0.00336^{+0.00093}_{-0.0012}$	$0.04474^{+0.012}_{-0.013}$	2949	$0.01198^{+0.0033}_{-0.0043}$	$0.01611^{+0.0031}_{-0.0034}$	3129
$t_{\overline{ ext{KS}}}$	$0.00336^{+0.00093}_{-0.0012}$	$\begin{array}{c} \textbf{0.0111} & \textbf{-0.013} \\ \textbf{0.00457} & \textbf{-0.00082} \\ \textbf{0.03295} & \textbf{-0.0081} \\ \textbf{0.05241} & \textbf{-0.014} \\ \textbf{-0.014} \end{array}$	3047	$\begin{array}{c} \textbf{0.01136} \begin{array}{c} -0.0043 \\ \textbf{0.00123} \begin{array}{c} +0.00035 \\ -0.00047 \\ 0.0094 \begin{array}{c} +0.002 \\ -0.0029 \\ 0.01349 \begin{array}{c} +0.004 \\ -0.0047 \\ \end{array} \\ \end{array}$	$0.00169^{+0.00029}_{-0.0036}$	3163
$t_{ m SKS}$	$0.02413^{+0.0082}_{-0.0095}$	$0.03295^{+0.0076}_{-0.0081}$	3089	$0.0094^{+0.002}_{-0.0029}$	$\begin{array}{c} 0.01256^{+0.0017}_{-0.002} \\ 0.01827^{+0.0034}_{-0.0035} \end{array}$	3211
$t_{ m FGD}$	$0.02413^{+0.0082}_{-0.0095}$ $0.03818^{+0.018}_{-0.016}$	$0.05241^{+0.017}_{-0.014}$	5730	$0.01349^{+0.004}_{-0.0047}$	$0.01827^{+0.0034}_{-0.0035}$	5971
$t_{ m MMD}$		$0.04404^{+0.011}_{-0.0098}$	11685	$0.00667^{+0.0033}_{-0.0037}$	$0.01827^{+0.0034}_{-0.0035}$ $0.00928^{+0.0031}_{-0.0025}$	12637
$t_{ m LLR}$	$0.03221_{-0.011}^{+0.0011} \\ 0.00014_{-9e-05}^{+0.0001}$	$0.00021^{+0.0001}_{-9e-05}$	9362	$5e - 05^{-0.0027}_{-3e - 05}$	$7e - 05^{+4e - 05}_{-3e - 05}$	7986
$\Sigma_{i \neq j}$ -deformation				pow_+ -deformation		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{+}}$	t (s)
$t_{ m SW}$	$0.00261^{+0.00064}_{-0.00086}$	$0.00348^{+0.00058}_{-0.00064}$	2053	$0.00416^{+0.0012}_{-0.0015}$	$0.00561^{+0.001}_{-0.0012}$	$\bf 3284$
$t_{\overline{ ext{KS}}}$	$\begin{array}{c} \textbf{0.00025} \\ \textbf{0.00025} \\ \textbf{-}\frac{7\text{e}}{9\text{e}} \\ \textbf{-}05 \\ \textbf{0.00166} \\ \textbf{-}0.00066 \\ \textbf{0.00182} \\ \textbf{-}0.00059 \\ \textbf{-}0.0005$	$\begin{array}{c} -0.0003 \\ -0.00033 \\ -8e - 05 \\ 0.00226 \\ -0.00053 \\ 0.00249 \\ -0.0004 \\ -0.0004 \\ \end{array}$	2175	$0.00029^{+9\mathrm{e}-05}_{-0.00012}$	$0.00041^{+9\mathrm{e}-05}_{-0.0001}$	3555
$t_{ m SKS}$	$0.00166^{+0.00051}_{-0.00066}$	$0.00226^{+0.00049}_{-0.00053}$	2256	$0.00306^{+0.00062}_{-0.00089}$	$0.00405^{+0.00049}_{-0.0006}$	3412
$t_{ m FGD}$	$0.00182^{+0.00045}_{-0.00059}$	$0.00249^{+0.00036}_{-0.0004}$	5216	$0.00494^{+0.0013}_{-0.0016}$	$0.00667^{+0.0011}_{-0.0011}$	5958
$t_{ m MMD}$	$0.00382^{+0.0012}_{-0.0012}$	$0.00525^{+0.0011}_{-0.001}$	11684	$0.00241^{+0.001}_{-0.00091}$	$0.00333^{+0.00094}_{-0.00082}$	13310
$t_{ m LLR}$	0.0^{+0}_{-0}	0.0^{+0}_{-0}	9174	$1e - 05^{+1e - 05}_{-1e - 05}$	$2e - 05^{+0}_{-1e-05}$	8742
$pow\deformation$				$\mathcal{N} ext{-} ext{deformation}$		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{-}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\% ext{CL}}^{\mathcal{N}}$	t (s)
$t_{ m SW}$	$0.00419^{+0.0012}_{-0.0015}$	$0.00567^{+0.0011}_{-0.0012}$	$\boldsymbol{3291}$	$0.16001^{+0.02}_{-0.031}$	$0.18547^{+0.016}_{-0.019}$	2607
$t_{\overline{ ext{KS}}}$	$0.00029^{+0.0001}_{-0.00012}$	$0.00041^{+0.0001}$	3549	$0.00593^{+0.0015}_{-0.0018}$	$0.00757^{+0.0014}_{-0.0015}$	3131
$t_{ m SKS}$	$0.00301^{+0.00067}_{-0.00097}$	$0.00398^{+0.00056}_{-0.00065}$	3447	$0.13104^{+0.019}_{-0.028}$	$0.15417^{+0.015}_{-0.02}$	2786
$t_{ m FGD}$	$0.00488^{+0.0013}_{-0.0016}$	$0.00669^{+0.00011}_{-0.0011}$	5693	$0.15039^{+0.017}_{-0.027}$	$0.17553^{+0.012}_{-0.015}$	4625
$t_{ m MMD}$	$0.00257^{+0.001}_{-0.00091}$	$0.00349^{+0.00019}_{-0.00081}$	13333	$0.37231_{-0.061}^{+0.027}$	$0.43454_{-0.033}^{+0.03}$	9278
$t_{ m LLR}$	$1e - 05^{+1}_{-1}e^{-05}$	$2e - 05^{+0}_{-1e-05}$	8857	-	-	-
$\mathcal{U} ext{-} ext{deformation}$				Timing		
Statistic	$\epsilon_{95\%{ m CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{U}}$	t (s)	t^{null} (s)		
$t_{ m SW}$	$0.27854^{+0.033}_{-0.055} \ 0.00979^{+0.0023}_{-0.0028}$	$\begin{array}{c} 0.32293^{+0.025}_{-0.035} \\ \textbf{0.01236}^{+0.0019}_{-0.0023} \\ 0.26646^{+0.026}_{-0.034} \\ 0.30348^{+0.021}_{-0.026} \end{array}$	2497	384		
$t_{\overline{ ext{KS}}}$	$0.00979^{+0.0023}_{-0.0028}$	$0.01236^{+0.0019}_{-0.0023}$	2980	321		
$t_{ m SKS}$	$\begin{array}{c} -0.0028 \\ 0.22648^{+0.032}_{-0.049} \\ 0.26002^{+0.03}_{-0.046} \end{array}$	$0.26646^{+0.026}_{-0.034}$	2674	721		
$t_{ m FGD}$	$0.26002^{+0.03}_{-0.046}$	$0.30348^{+0.021}_{-0.026}$	4428	5139		
$t_{ m MMD}$	$0.64451_{-0.094}^{+0.068}$	$0.30348_{-0.026}^{+0.026} \\ 0.75224_{-0.053}^{+0.053}$	9043	16625		
$t_{ m LLR}$	-	-	-	-		