MoG model with $d = 20$, $q = 5$, and $n = m = 5 \cdot 10^4$						
Q1 1: 1:	μ -deformation			Σ_{ii} -deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.04957^{+0.018}_{-0.02}$	$0.06694^{+0.017}_{-0.017}$	3023	$0.01679^{+0.005}_{-0.0063}$	$0.02315^{+0.0045}_{-0.005}$	3197
$t_{\overline{ ext{KS}}}$	$0.00482^{+0.0013}_{-0.0018}$	$0.00667^{+0.0011}_{-0.0013}$	2966	$0.00175^{+0.00052}_{-0.00068}$	$0.00248^{+0.00042}_{-0.00052}$	3185
$t_{ m SKS}$	$\begin{array}{c} 0.04937_{-0.02} \\ 0.00482_{-0.0018}^{+0.0013} \\ 0.03647_{-0.014}^{+0.011} \\ 0.05778_{-0.027}^{+0.026} \end{array}$	$\begin{array}{c} \textbf{0.00601} = 0.0017 \\ \textbf{0.00667} = 0.0011 \\ 0.04821 = 0.012 \\ 0.0787 = 0.021 \\ 0.06215 = 0.015 \\ 0.0034000013 \end{array}$	2899	$\begin{array}{c} \textbf{0.01616} - 0.0063 \\ \textbf{0.00175} - 0.00068 \\ \textbf{0.01329} + 0.003 \\ 0.01329 + 0.0043 \\ \textbf{0.01945} + 0.0063 \\ \textbf{0.00923} + 0.0051 \\ \textbf{0.00923} + 0.005$	$\begin{array}{c} \textbf{0.002618} - 0.003 \\ \textbf{0.00248} + \textbf{0.00042} \\ \textbf{0.01759} + \textbf{0.0025} \\ \textbf{0.01759} + \textbf{0.0033} \\ \textbf{0.02651} + \textbf{0.0053} \\ \textbf{-0.0056} \end{array}$	3022
$t_{ m FGD}$	$0.05778^{+0.026}_{-0.027}$	$0.0787^{+0.023}_{-0.021}$	4047	$0.01945^{+0.0063}_{-0.0081}$	$0.02651^{+0.0053}_{-0.0056}$	4507
$t_{ m MMD}$	$0.04425^{+0.019}_{-0.018}$	$0.06215^{+0.017}_{-0.015}$	10204	$0.00923^{+0.0058}_{-0.0051}$	$0.01305^{+0.0053}_{-0.0044}$	11217
$t_{ m LLR}$	$ \begin{array}{c} 0.05778_{-0.027}^{+0.027} \\ 0.04425_{-0.018}^{+0.019} \\ 0.00021_{-0.00014}^{+0.00013} \end{array} $	$0.0003^{+0.00013}_{-0.00014}$	5911	$7e - 05^{+5e - 05}_{-4e - 05}$	0.0001^{+5e-05}_{-4e-05}	6304
$\Sigma_{i\neq j}$ -deformation				pow deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{+}}$	t (s)
$t_{ m SW}$	$0.00377^{+0.00098}_{-0.0013}$	$0.00513^{+0.00085}_{-0.00097}$	2111	$0.00581^{+0.0017}_{-0.0022}$	$0.00798^{+0.0015}_{-0.0017}$	3157
$t_{\overline{ ext{KS}}}$	$0.00033^{+0.0001}_{-0.00011}$	$0.00046^{+0.0001}_{-0.0001}$	2033	$0.0004^{+0.00015}_{-0.00017}$	$0.00059^{+0.00013}_{-0.00014}$	3363
$t_{ m SKS}$	-0.00044 ± 0.00075	$0.00329^{+0.00067}_{-0.00077}$	2098	$0.0043^{+0.0009}_{-0.0013}$	$0.00565^{+0.00074}_{-0.0009}$	3193
$t_{ m FGD}$	$ \begin{array}{c} 0.00244_{-0.00092} \\ 0.00268_{-0.0011}^{+0.00075} \end{array} $	$0.0037^{+0.0006}_{-0.00071}$	3753	$0.00702^{+0.0021}_{-0.0028}$	$0.00965^{+0.0016}_{-0.0019}$	4870
$t_{ m MMD}$	$0.00527^{+0.0019}_{-0.0021}$	$0.00742^{+0.0017}_{-0.0016}$	12555	$0.00332^{+0.0018}_{-0.0017}$	$0.00467^{+0.0017}_{-0.0014}$	11801
$t_{ m LLR}$	$\begin{array}{c} -0.0011 \\ 0.00527^{+0.0019}_{-0.0021} \\ 0.0^{+1e-05}_{-0} \end{array}$	$1e - 05^{+0}_{-1e-05}$	6656	$\begin{array}{c} -0.00332^{+0.0018}_{-0.0017} \\ 2e - 05^{+1e-05}_{-1e-05} \end{array}$	$0.00467_{-0.0014}^{+0.0017} 2e - 05_{-1e-05}^{+1e-05}$	6877
powdeformation				$\mathcal{N} ext{-deformation}$		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{-}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{N}}$	t (s)
$t_{ m SW}$	$0.00604^{+0.0017}_{-0.0023}$	$\begin{array}{c} 0.00825^{+0.0016}_{-0.0018} \\ 0.00061^{+0.00013}_{-0.00015} \end{array}$	3051	$0.19318^{+0.025}_{-0.039}$	$0.22704^{+0.019}_{-0.026}$	2403
$t_{\overline{ ext{KS}}}$	$0.00042^{+0.00015}_{-0.00018}$	$0.00061_{-0.00015}^{+0.00013}$	3372	$0.00751^{+0.002}_{-0.0024}$	$0.00993^{+0.0018}_{-0.002}$	2934
$t_{ m SKS}$	$0.00441^{+0.00092}_{-0.0014}$	$0.00574^{+0.00077}_{-0.00094}$	3324	$0.15874^{+0.023}_{-0.034}$	$0.18473^{+0.019}_{-0.023}$	2726
$t_{ m FGD}$	$0.00722^{+0.0021}_{-0.0027}$	$0.00987^{+0.0016}_{-0.0019}$	4892	$0.18095^{+0.023}_{-0.038}$	$0.21269^{+0.016}_{-0.02}$	3756
$t_{ m MMD}$	$0.00353^{+0.0016}_{-0.0015}$	$0.00494^{+0.0014}_{-0.0012}$	11418	$0.43531_{-0.11}^{+0.066}$	$0.51609_{-0.054}^{-0.0245}$	8642
$t_{ m LLR}$	$\begin{array}{c} -0.0014 \\ -0.00722^{+0.0021}_{-0.0027} \\ 0.00353^{+0.0016}_{-0.0015} \\ 2e - 05^{+1}e^{-05} \end{array}$	$2e - 05^{+1}_{-1}^{+1}_{e-05}^{-05}$	6991	-	-	-
\mathcal{U} -deformation					Timing	
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{U}}$	t (s)	t^{null} (s)		
$t_{ m SW}$	$0.33394^{+0.044}_{-0.068}$	$0.39248^{+0.033}_{-0.044}$	2354	338		· · ·
$t_{\overline{ ext{KS}}}$	$\mid 0.01211^{+0.003}_{-0.0035} \mid$	$0.01575^{+0.0027}_{-0.002}$	2835	155		
$t_{ m SKS}$	$0.27395^{+0.041}_{-0.059}$	$0.3188^{+0.033}_{-0.04}$	2601	509		
$t_{ m FGD}$	$0.31409^{+0.04}_{-0.07}$	$0.36919^{+0.027}_{-0.036}$	3643	2795		
$t_{ m MMD}$	$ \begin{array}{c} 0.31409^{+0.04}_{-0.07} \\ 0.75353^{+0.12}_{-0.18} \end{array} $	$\begin{array}{c} -0.003 \\ 0.3188 ^{+0.033}_{-0.04} \\ 0.36919 ^{+0.027}_{-0.036} \\ 0.89336 ^{+0.078}_{-0.098} \end{array}$	7700	13860		
$t_{ m LLR}$	-	-	-	-		