MoG model with $d = 5$, $q = 3$, and $n = m = 5 \cdot 10^4$						
	μ -deformation			Σ_{ii} -deformation		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$\begin{array}{c} 0.03867^{+0.015}_{-0.015} \\ 0.002^{+0.00077}_{-0.00083} \end{array}$	$0.05335^{+0.015}_{-0.015}$	1312	$\begin{array}{c} 0.01366^{+0.0039}_{-0.0044} \\ \textbf{0.00121}^{+0.00032}_{-0.00039} \\ 0.00731^{+0.0018}_{-0.0022} \end{array}$	$0.01898^{+0.0035}_{-0.0039}$	1415
$t_{\overline{ ext{KS}}}$	$0.002^{+0.00077}_{-0.00083}$	$\begin{array}{c} \textbf{0.00277} \begin{array}{c} -0.015 \\ \textbf{0.00277} \begin{array}{c} -0.00075 \\ -0.00076 \\ \end{array} \\ 0.03165 \begin{array}{c} +0.0076 \\ -0.0076 \\ \end{array} \\ 0.06082 \begin{array}{c} +0.024 \\ -0.018 \\ \end{array} \\ 0.03545 \begin{array}{c} +0.014 \\ -0.011 \end{array}$	1308	$0.00121^{+0.00032}_{-0.00039}$	$0.00157^{+0.00031}$	1315
$t_{ m SKS}$	1.009395 ± 0.0079	$0.03165^{+0.0076}_{-0.0076}$	1439	$0.00731^{+0.0018}_{-0.0022}$	$\begin{array}{c} -0.0033 \\ 0.00993 ^{+0.0015}_{-0.0017} \\ 0.02005 ^{+0.0035}_{-0.0035} \\ 0.00833 ^{+0.0029}_{-0.0023} \\ 0.00112 ^{+0.0003}_{-0.00027} \\ \end{array}$	1539
$t_{ m FGD}$	$0.04381^{+0.026}_{-0.019}$	$0.06082^{+0.024}_{-0.018}$	1536	$0.0147^{+0.004}_{-0.0043}$	$0.02005^{+0.0035}_{-0.0035}$	1610
$t_{ m MMD}$	$0.02629_{-0.0085}^{+0.026}$ $0.04381_{-0.019}^{+0.026}$ $0.02669_{-0.014}^{+0.014}$	$0.03545^{+0.014}_{-0.011}$	8990	$\begin{array}{c} 0.00731_{-0.0022} \\ 0.0147_{-0.0043}^{+0.004} \\ 0.00629_{-0.0025}^{+0.0031} \\ 0.00092_{-0.00031}^{+0.00031} \end{array}$	$0.00833^{+0.0029}_{-0.0023}$	9570
$t_{ m NPLM}$	$0.00423^{+0.0013}_{-0.0014}$	$0.00515_{-0.0012}^{+0.0011}$	18283	$0.00092^{+0.00031}_{-0.00032}$	$0.00112^{+0.0003}_{-0.00027}$	12719
$t_{ m LLR}$	$0.00423_{-0.0014} \\ 0.00036_{-0.0002}^{+0.00019}$	$0.0005^{+0.0002}_{-0.0002}$	2776	$0.00011^{+7e-05}_{-8e-05}$	$0.00016_{-8e-05}^{+6e-05}$	3063
$\Sigma_{i\neq j}$ -deformation				pow_+ -deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$\begin{array}{c} 0.02657^{+0.0058}_{-0.0077} \\ 1.00116^{+0.00055}_{-6e-05} \end{array}$	$0.03639^{+0.005}_{-0.0059} \\ 1.00165^{+0.00018}_{-0.00025}$	1508	$0.00841^{+0.0024}_{-0.0028} \\ 0.00142^{+0.00043}_{-0.00049}$	$\begin{array}{c} 0.01169^{+0.0022}_{-0.0023} \\ \textbf{0.00189}^{+0.00041}_{-0.00043} \\ 0.0063^{+0.00088}_{-0.001} \\ 0.01216^{+0.0023}_{-0.0023} \\ 0.00478^{+0.0018}_{-0.0014} \\ \end{array}$	1462
$t_{\overline{ ext{KS}}}$	$1.00116^{+0.00055}_{-6e-05}$	$1.00165^{+0.00018}_{-0.00025}$	1404	$0.00142^{+0.00043}_{-0.00049}$	$0.00189^{+0.00041}_{-0.00043}$	1326
$t_{ m SKS}$	$ 0.02533^{+0.0073}_{-0.0088}$	$0.03416^{+0.0062}_{-0.0074}$	1630	$ 0.00467^{+0.001}_{-0.0013}$	$0.0063^{+0.00088}_{-0.001}$	1552
$t_{ m FGD}$	$0.01034^{+0.0023}_{-0.0025}$	$0.01443^{+0.0017}_{-0.0022}$	2060	$0.0089^{+0.0026}_{-0.0027}$	$0.01216^{+0.0023}_{-0.0023}$	1790
$t_{ m MMD}$	$0.02201^{+0.0099}_{-0.0084}$	$0.02908^{+0.0094}_{-0.0079}$	9396	$0.00361_{-0.00014}^{+0.0019}$	$0.00478^{+0.0018}_{-0.0014}$	9705
$t_{ m NPLM}$	$0.00142^{+0.00051}_{-0.00052}$	$0.0018^{+0.0004}_{-0.00045}$	10207	$\begin{array}{c} 0.0006^{+0.0002}_{-0.0002} \\ 0.00017^{+0.0001}_{-9e-05} \end{array}$	$0.00073_{-0.00017}$	10610
$t_{ m LLR}$	-	-	-		$0.00025^{+0.0001}_{-0.0001}$	2854
powdeformation				$\mathcal{N} ext{-deformation}$		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$\begin{array}{c} 0.00858^{+0.0024}_{-0.0029} \\ \textbf{0.00142}^{+0.00045}_{-0.0005} \\ 0.0048^{+0.0011}_{-0.0014} \end{array}$	$\begin{array}{c} 0.01188^{+0.0023}_{-0.0024} \\ \textbf{0.00188}^{+0.00042}_{-\textbf{0.000044}} \\ 0.00642^{+0.001}_{-0.0011} \end{array}$	1466	$\begin{array}{c} 0.16467^{+0.02}_{-0.029} \\ \textbf{0.00546}^{+0.00092}_{-0.0012} \\ 0.11614^{+0.016}_{-0.024} \end{array}$	$0.19494^{+0.015}_{-0.019}$ $0.00651^{+0.00087}_{-0.0009}$ $0.1371^{+0.013}_{-0.017}$	1187
$t_{\overline{ ext{KS}}}$	$0.00142^{+0.00045}_{-0.0005}$	$0.00188^{+0.00042}_{-0.00044}$	1320	$0.00546^{+0.00092}_{-0.0012}$	$0.00651^{+0.00087}_{-0.0009}$	1226
$t_{ m SKS}$	$0.0048^{+0.0011}_{-0.0014}$	$0.00642^{+0.001}_{-0.0011}$	1562	$0.11614^{+0.016}_{-0.024}$	$0.1371^{+0.013}_{-0.017}$	1321
$t_{ m FGD}$	$ 0.0091^{+0.0025}_{-0.0026} $	$0.01247^{+0.0022}_{-0.0022}$	1789	$0.1925^{+0.019}_{-0.027}$	$0.22617^{+0.014}_{-0.016}$	1452
$t_{ m MMD}$	$0.00374_{-0.0016}^{+0.0019}$	$0.00492^{+0.0019}_{-0.0015}$	9724	$0.25293_{-0.048}^{+0.036}$	$0.28868^{+0.032}_{-0.032}$	8612
$t_{ m NPLM}$	$\begin{array}{c} 0.00064^{+0.00024}_{-0.00024} \\ 0.00018^{+0.0001}_{-0.0001} \end{array}$	$\begin{array}{c} 0.00078^{+0.00022}_{-0.00022} \\ 0.00025^{+0.0001}_{-0.0001} \end{array}$	10749	$0.0707^{+0.011}_{-0.013}$	$0.07922^{+0.0091}_{-0.0096}$	7824
$t_{ m LLR}$			2850	-	-	-
$\mathcal{U} ext{-deformation}$			Timing			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	t^{null} (s)		
$t_{ m SW}$	$\begin{array}{c} 0.28418^{+0.035}_{-0.05} \\ \textbf{0.00924}^{+0.0015}_{-0.0019} \end{array}$	$0.33591^{+0.027}_{-0.033}$	1344	319		
$t_{\overline{ ext{KS}}}$	$0.00924_{-0.0019}^{+0.0015}$	$0.01096^{+0.0013}_{-0.0015}$	1208	49		
$t_{ m SKS}$	$\begin{array}{c} 0.00924^{+0.0015}_{-0.0019} \\ 0.19824^{+0.029}_{-0.044} \end{array}$	$\begin{array}{c} 0.33591^{+0.027}_{-0.033} \\ 0.01096^{+0.0013}_{-0.0015} \\ 0.23402^{+0.023}_{-0.023} \end{array}$	1271	484		
$t_{ m FGD}$	$0.33191^{+0.034}_{-0.044}$	$0.39255^{+0.022}_{-0.026}$	1433	1150		
$t_{ m MMD}$	$0.43535^{+0.007}_{-0.079}$	$0.5005^{+0.054}_{-0.057}$	7010	13839		
$t_{ m NPLM}$	$0.12346^{+0.02}_{-0.023}$	$0.13671^{+0.016}_{-0.017}$	7412	23042		
$t_{ m LLR}$	_	-	-	_		