	Mo	oG model with d =	= 5, q = 3	3,  and  n = m = 10	)4	
	$\mu$ -deformation			$\Sigma_{ii}$ -deformation		
Statistic	$\mid \epsilon_{95\%{ m CL}} \mid$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.09192^{+0.035}_{-0.035}$	$0.12363^{+0.035}_{-0.032}$	1353	$0.03015^{+0.0085}_{-0.0099}$	$0.04164^{+0.0081}_{-0.0086}$	1531
$t_{\overline{ ext{KS}}}$	$0.00496^{+0.0017}_{-0.0017}$	$0.00664^{+0.0015}_{-0.0017}$	1539	$0.00274^{+0.00063}_{-0.00069}$	$0.00353^{+0.00059}_{-0.00064}$	1626
$t_{ m SKS}$	$0.05494^{+0.019}$	$0.07242^{+0.018}_{-0.018}$	1748	$0.01644^{+0.0038}_{-0.0045}$	$0.02223^{+0.0033}_{-0.0038}$	1888
$t_{ m FGD}$	$0.10354^{+0.06}_{-0.044}$	$0.14117^{+0.056}_{-0.042}$	1278	$0.0327^{+0.0089}_{-0.01}$	$0.0444^{+0.0077}_{-0.0077}$	1270
$t_{ m MMD}$	$0.06434^{+0.035}_{-0.025}$		1344	$-0.04000\pm0.0054$	$0.0188^{+0.005}_{-0.0044}$	1497
$t_{ m NPLM}$		$0.08544_{-0.025}^{+0.035}$ $0.01168_{-0.0026}^{+0.0025}$	4593	$\begin{array}{c} 0.01392^{+0.0034}_{-0.0046} \\ 0.00221^{+0.00079}_{-0.00074} \end{array}$	$0.0027^{+0.00074}_{-0.00068}$	5043
$t_{ m NPLM}$	$\begin{array}{c} 0.00958^{+0.0027}_{-0.0029} \\ 0.00364^{+0.0011}_{-0.0014} \end{array}$	$0.00438^{+0.001}_{-0.0012}$	19047	$0.00136^{+0.00043}_{-0.00052}$	$0.00164 \pm 0.00039$	20102
$t_{ m LLR}$	$\begin{array}{c c} 0.00364_{-0.0014}^{+0.0014} \\ 0.00078_{-0.00047}^{+0.00047} \end{array}$	$0.00438_{-0.0012}^{+0.001} \\ 0.0011_{-0.00047}^{+0.0047}$	2810	$\begin{array}{c} 0.00221 \begin{array}{c} -0.00074 \\ 0.00136 \begin{array}{c} +0.00043 \\ -0.00052 \end{array} \\ 0.00027 \begin{array}{c} +0.0016 \\ -0.00016 \end{array} \end{array}$	$0.00164_{-0.00043} \atop 0.00037_{-0.00016}^{+0.00043}$	3000
$\Sigma_{i \neq j}$ -deformation				$pow_+$ -deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{\rm SW}$	$0.05949^{+0.013}_{-0.018}$	$0.08161^{+0.01}_{-0.014}$	1421	$0.01845^{+0.0052}_{-0.0061}$	$0.0255^{+0.0047}_{-0.0053}$	1259
$t_{\overline{\mathrm{KS}}}$	$1.00317^{+0}_{-0.0013}$	$1.00354^{+0.00012}_{-0.00043}$	1384	$0.00345^{+0.00099}_{-0.0011}$	$0.00444^{+0.00096}_{-0.00097}$	1612
$t_{ m SKS}$	$0.05701^{+0.015}_{-0.018}$	$0.0746^{+0.014}_{-0.014}$	1593	$0.0106^{+0.0024}_{-0.0027}$	$0.01405^{+0.0021}_{-0.0023}$	1807
$t_{\rm FGD}$	$0.02441^{+0.006}_{-0.062}$	$0.03421^{+0.005}_{-0.0056}$	1648	$0.01964^{+0.0054}_{-0.006}$	$0.02668^{+0.0046}_{-0.0048}$	1294
$t_{ m MMD}$	$0.04929^{+0.019}_{-0.017}$	$0.06712^{+0.017}_{-0.015}$	1607	$0.00788^{+0.0032}_{-0.0027}$	$0.01064^{+0.003}_{-0.0024}$	1518
$t_{ m NPLM}$	$0.00354_{-0.0014}^{+0.0013} \\ 0.00282_{-0.0016}^{+0.0015}$	$0.00451^{+0.0013}_{-0.0012}$	5257	$\begin{array}{c} -0.000 \\ 0.00788^{+0.0032}_{-0.0027} \\ 0.00143^{+0.00053}_{-0.00049} \end{array}$	$0.00174^{+0.0005}_{-0.00044}$	5082
$t_{ m NPLM}$	$0.00282^{+0.0015}_{-0.0016}$	$0.00399^{+0.0014}_{-0.0015}$	103292	$\pm 0.00063$	$0.00231^{+0.00057}_{-0.00061}$	23009
$t_{ m LLR}$	-	-	-	$0.00191_{-0.00074}^{+0.00074} \\ 0.00041_{-0.00025}^{+0.00025}$	$0.00057^{+0.00025}_{-0.00025}$	3017
powdeformation			$\mathcal{N}$ -deformation			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{\rm SW}$	$0.01989^{+0.0056}_{-0.0064}$	$0.0273^{+0.0052}_{-0.0055}$	1221	$0.25306^{+0.031}_{-0.043}$	$0.29897^{+0.026}_{-0.029}$	1050
$t_{\overline{ ext{KS}}}$	$0.00317^{+0.0009}_{-0.00089}$	$0.00416^{+0.0009}_{-0.00083}$	1634	$0.00921^{+0.0016}_{-0.0017}$	$0.01112^{+0.0016}_{-0.0016}$	1496
$t_{ m SKS}$	$0.01066^{+0.0023}$	$0.01407^{+0.0021}_{-0.0022}$	1804	$0.18137^{+0.025}_{-0.036}$	$0.21312^{+0.023}_{-0.025}$	1551
$t_{ m FGD}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c} 0.01407^{+0.0021}_{-0.0022} \\ 0.02847^{+0.005}_{-0.005} \end{array}$	1300	$\begin{array}{c} 0.18137^{+0.025}_{-0.036} \\ 0.29378^{+0.029}_{-0.045} \end{array}$	$0.34516^{+0.022}$	1080
$t_{ m MMD}$	$0.00858^{+0.0037}_{-0.0032}$	$0.01169^{+0.0034}_{-0.003}$	1550	$0.37502^{+0.040}_{-0.064}$	$0.43162^{+0.041}_{-0.039}$	1240
$t_{ m NPLM}$		+0 00051	5153	$\pm 0.10001 \pm 0.017$	$0.11719^{+0.016}_{-0.018}$	3939
$t_{ m NPLM}$	$0.00100 \pm 0.00067$	$\begin{array}{c} 0.00173^{+0.00031}_{-0.00048} \\ 0.00239^{+0.00062}_{-0.00065} \end{array}$	20201	$0.10681_{-0.025}$ $0.02244_{-0.006}^{+0.0038}$	$0.02532^{+0.0027}_{-0.0043}$	16925
$t_{ m LLR}$	$\begin{array}{c} 0.00199_{-0.00079}^{+0.00079} \\ 0.00036_{-0.00025}^{+0.00025} \end{array}$	$0.00239^{+0.00065}_{-0.00025}$ $0.00053^{+0.00025}_{-0.00025}$	3139	-	-	-
		-deformation	1	Timing		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$t^{\text{null}}$ (s)		
$t_{\rm SW}$	$0.4365^{+0.054}_{-0.078}$	$0.51675^{+0.039}_{-0.053}$	988	261		
$t_{\overline{ ext{KS}}}$	$0.01504^{+0.0026}_{-0.0027}$	$0.01804^{+0.0022}_{-0.0026}$	1510	37		
$t_{\rm SKS}$	$0.30846^{+0.044}_{-0.057}$	$0.36537^{+0.036}_{-0.045} \ 0.59684^{+0.038}_{-0.049}$	1513	352		
$t_{\rm FGD}$	$0.50798^{+0.053}_{-0.076}$	$0.59684_{-0.049}^{+0.038}$	1030	368		
$t_{ m MMD}$	$0.64544^{+0.087}$	$0.7501^{+0.064}_{-0.067}$	1231	215		
$t_{ m NPLM}$	$0.1857^{+0.03}_{-0.043}$	$0.20519^{+0.027}$	3775	3656		
	$0.03888^{+0.0067}_{-0.01}$	$0.04348^{+0.0055}_{-0.0068}$	16293	28153		
$t_{ m NPLM}$	0.03888_0.01	$0.04340_{-0.0068}$	10200	20100		