		CG model with d	= 20 as				
	μ -deformation			Σ_{ii} -deformation			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\% ext{CL}}$	t (s)	
$t_{ m SW}$	$0.03129^{+0.017}_{-0.017}$	$0.04371^{+0.017}_{-0.016}$	639	$0.01426^{+0.005}_{-0.0059}$	$0.01917^{+0.0048}_{-0.0048}$	665	
$t_{\overline{ ext{KS}}}$	$0.03141^{+0.016}_{-0.015}$	$0.04347^{+0.015}_{-0.015}$	460	$0.01967^{+0.0071}_{-0.0077}$	$0.02735^{+0.0066}_{-0.007}$	472	
$t_{ m SKS}$	$0.03135^{+0.016}_{-0.016}$	$0.04314_{-0.015}^{+0.016}$	769	$0.018^{+0.0065}_{-0.0075}$	$0.02411^{+0.0063}_{-0.0064}$	782	
$t_{ m FGD}$	$0.03111^{+0.021}_{-0.017}$	$0.04314^{+0.016}_{-0.015}$ $0.04314^{+0.016}_{-0.015}$ $0.04221^{+0.019}_{-0.016}$	4255	$0.01186^{+0.0054}_{-0.005}$	$0.01569^{+0.0048}_{-0.0044}$	4335	
$t_{ m MMD}$	$0.04025^{+0.025}_{-0.019}$	$0.05607^{+0.023}_{-0.018}$	9663	$0.01562^{+0.01}_{-0.0074}$	$0.02173^{+0.0094}_{-0.0071}$	10030	
$t_{ m LLR}$	$\begin{array}{c} 0.03129 - 0.017 \\ 0.03141 + 0.016 \\ -0.015 \\ 0.03135 + 0.016 \\ \textbf{0.03111} + 0.021 \\ -0.017 \\ 0.04025 + 0.025 \\ -0.019 \\ 0.00359 + 0.0024 \\ \end{array}$	$0.04221_{-0.016}^{+0.016}$ $0.05607_{-0.018}^{+0.023}$ $0.00499_{-0.0024}^{+0.0024}$	4610	$\begin{array}{c} 0.01420_{-0.0059} \\ 0.01967_{-0.0077}^{+0.0071} \\ 0.018_{-0.0075}^{+0.0065} \\ \textbf{0.01186}_{-0.005}^{+0.0054} \\ 0.01562_{-0.0074}^{+0.01} \\ 0.00121_{-0.00069}^{+0.0074} \end{array}$	$\begin{array}{c} -0.00648 \\ \textbf{0.01569} \begin{array}{c} -0.0048 \\ \textbf{0.02173} \begin{array}{c} +0.0044 \\ -0.0044 \\ 0.02173 \begin{array}{c} +0.0094 \\ -0.0071 \\ 0.00169 \begin{array}{c} +0.00069 \\ -0.0007 \end{array} \end{array}$	5014	
$\Sigma_{i\neq j}$ -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 c} 0.0092^{+0.0027}_{-0.0037} \\ 1.0196^{+0.0058}_{-0.0057} \end{array} $	$0.01296^{+0.0025}_{-0.0026}$	3030	$0.00297^{+0.0014}_{-0.0015}$	$0.00412^{+0.0013}_{-0.0013}$	704	
$t_{\overline{ ext{KS}}}$	$1.0196^{+0.0058}_{-0.0057}$	$1.0239^{+0.013}_{-0.0025}$	2596	$0.00399_{-0.0017}^{-0.0016}$	$0.00538^{+0.0014}_{-0.0015}$	508	
$t_{ m SKS}$	$0.01053^{+0.0036}_{-0.0042}$	$0.01484^{+0.0032}_{-0.0037}$	3823	$0.00327^{+0.0013}_{-0.0015}$	$0.00437^{+0.0013}_{-0.0013}$	837	
$t_{ m FGD}$	$0.0018^{+0.0004}_{-0.006}$	$0.00231^{+0.00035}_{-0.00041}$	9002	$0.00271^{+0.0015}_{-0.0014}$	$0.00361^{+0.0014}_{-0.0011}$	3416	
$t_{ m MMD}$	$0.00936^{+0.006}_{-0.0043}$	$0.0131^{+0.0055}_{-0.0041}$	13103	$0.00241^{+0.0016}$	$0.00337^{+0.0015}_{-0.0011}$	11029	
$t_{ m LLR}$	$\begin{array}{c} -0.0008 \\ 0.00936^{+0.006}_{-0.0043} \\ 0.01074^{+0.0042}_{-0.0041} \end{array}$	$0.0131^{+0.0050}_{-0.0041} \\ 0.01372^{+0.004}_{-0.0046}$	8682	$0.00029^{+0.00017}_{-0.00017}$	$0.00041^{+0.00017}_{-0.00016}$	5378	
powdeformation				$\mathcal{N} ext{-deformation}$			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	
$t_{ m SW}$	$0.00332^{+5}_{-0.0012}$	$0.00448^{+5}_{-0.00099}$	636	$0.2383^{+0.041}_{-0.058}$	$0.2828^{+0.032}_{-0.039}$	527	
$t_{\overline{ ext{KS}}}$	$0.00427^{+0.0013}_{-0.0014}$	$0.00565_{-0.0012}^{+0.0013}$	502	$0.26557^{+0.046}_{-0.062}$	$0.31516_{-0.044}^{+0.036}$	418	
$t_{ m SKS}$	$0.00361^{+0.0011}_{-0.0012}$	$0.0047^{+0.0011}_{-0.001}$	826	$\begin{array}{c} 0.26557^{+0.046}_{-0.062} \\ 0.23289^{+0.042}_{-0.057} \end{array}$	$0.27403^{+0.034}_{-0.041}$	672	
$t_{ m FGD}$	$0.00296^{+0.0012}_{-0.001}$	$0.0039^{+0.0011}_{-0.00093}$	3369	$0.14094^{+0.018}_{-0.027}$	$0.16127^{+0.013}_{-0.016}$	2623	
$t_{ m MMD}$	$0.00241^{+0.0010}_{-0.0011}$	$0.0034^{+0.0015}_{-0.0011}$	11032	$0.60915^{+0.1}_{-0.12}$	$0.71813^{+0.08}_{-0.08}$	7611	
$t_{ m LLR}$	$0.00031^{+0.00016}_{-0.00017}$	$0.0034_{-0.0011}^{+0.0015} \\ 0.00043_{-0.00017}^{+0.00016}$	5381	-	-	-	
\mathcal{U} -deformation					Timing		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	t^{null} (s)			
$t_{ m SW}$	$0.41249^{+0.072}_{-0.1}$	$0.49115^{+0.057}_{-0.069}$	515	358			
$t_{\overline{ ext{KS}}}$	$0.45649^{+0.083}$	$0.54354^{+0.064}_{-0.073}$ $0.47562^{+0.061}_{-0.073}$	402	224			
$t_{ m SKS}$	$0.40164^{+0.076}_{-0.096}$	$0.47562^{+0.061}_{-0.07}$	663	702			
$t_{ m FGD}$	$0.24366^{+0.031}_{-0.046}$	$0.27881^{+0.023}_{-0.027}$	2511	6325			
$t_{ m MMD}$	$1.06239_{-0.22}^{+0.16}$	$1.24837^{+0.14}_{-0.14}$	8273	16601			
$t_{ m LLR}$	-	-	-	-			