CG model with $d=100$ 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)
$t_{ m SW}$	$0.03802^{+0.011}_{-0.013}$	$0.0489^{+0.0099}_{-0.011}$	857	$0.01458^{+0.0043}_{-0.0051}$	$0.01856^{+0.0039}_{-0.004}$	822
$t_{\overline{ ext{KS}}}$	$0.03575^{+0.012}_{-0.015}$	$0.04605^{+0.011}_{-0.012}$	833	$0.01795^{+0.0061}_{-0.0076} \\ 0.01894^{+0.0059}_{-0.0072}$	$0.02313^{+0.0057}_{-0.0062}$	883
$t_{ m SKS}$	$0.03957^{+0.011}_{-0.014}$	$0.05019^{+0.01}_{-0.011}$	1038	$0.01894^{+0.0059}_{-0.0072}$	$0.02379_{-0.0061}^{+0.0053}$	1141
$t_{ m FGD}$	$0.04169_{-0.016}^{+0.014}$ $0.02696_{-0.013}^{+0.015}$	$0.05238^{+0.012}_{-0.013}$	11537	$0.01306^{+0.0042}_{-0.005}$	$\begin{array}{c} -0.004 \\ -0.02313 + 0.0057 \\ -0.0062 \\ 0.02379 + 0.0053 \\ -0.0061 \\ 0.01641 + 0.0039 \\ -0.0039 \\ \end{array}$	10029
$t_{ m MMD}$	$0.02696^{+0.015}_{-0.013}$	$0.0351^{+0.014}_{-0.011}$	8530	$0.01695^{+0.0078}_{-0.0074}$	$0.02212^{+0.0073}_{-0.0062}$	8705
$t_{ m LLR}$	$0.00244^{+0.0015}_{-0.0015}$	$0.00345^{+0.0015}_{-0.0015}$	8119	$0.0005^{+0.00035}_{-0.00035}$	$0.0007^{+0.00035}_{-0.00035}$	9217
$\Sigma_{i\neq j}$ -deformation			pow_+ -deformation			
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{+}}$	t (s)
$t_{ m SW}$	$0.01669^{+0.005}_{-0.0063}$	$0.02178^{+0.0044}_{-0.0051}$	16981	$0.00319^{+0.00091}_{-0.0011}$	$0.00408^{+0.0008}_{-0.00089} \\ 0.0048^{+0.001}_{-0.0011}$	875
$t_{\overline{ ext{KS}}}$	$\begin{array}{c} -0.0098 \\ 1.01758 ^{+0.0098}_{-0.0081} \\ 0.02138 ^{+0.0073}_{-0.0089} \end{array}$	$1.02142^{+0.0078}_{-0.003}$	18110	$0.00377^{+0.0011}_{-0.0015}$	$0.0048^{+0.001}_{-0.0011}$	938
$t_{ m SKS}$	$0.02138^{+0.0073}_{-0.0089}$	$0.02764_{-0.0074}^{+0.0065}$	17381	$0.00365^{+0.00095}_{-0.0012}$	$0.00455^{+0.00087}_{-0.00099}$	1271
$t_{ m FGD}$	$0.0017^{+0.0004}_{-0.0006}$	$0.0021^{+0.0074}_{-0.00049}$	34786	$0.00319_{-0.0012}^{+0.0012}$	$0.00455^{+0.00087}_{-0.00099}$ $0.00401^{+0.0009}_{-0.00095}$	8636
$t_{ m MMD}$	$0.0097^{+0.0046}_{-0.0044}$	$0.01275^{+0.0043}_{-0.0037} \\ 0.01018^{+0.0028}_{-0.0028}$	22011	$0.00213^{+0.0012}_{-0.001}$	$0.00278_{-0.00089}^{+0.0011} \\ 0.0002_{-0.0001}^{+0.0001}$	9610
$t_{ m LLR}$	$0.00823_{-0.0036}^{+0.0025}$	$0.01018^{+0.0028}_{-0.0028}$	24451	$0.00014^{+0.0001}_{-0.0001}$	$0.0002^{+0.0001}_{-0.0001}$	9983
$pow\deformation$			$\mathcal{N} ext{-} ext{deformation}$			
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{-}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{N}}$	t (s)
$t_{ m SW}$	$ \begin{array}{c} 0.00326^{+5}_{-0.0014} \\ 0.00375^{+0.0013}_{-0.0017} \\ 0.0036^{+0.0011}_{-0.0014} \\ 0.00325^{+0.0016}_{-0.0016} \\ \mathbf{0.00207^{+0.0012}_{-0.0011}} \\ 0.00018^{+0.0001}_{-0.0001} \end{array}$	$\begin{array}{c} 0.00416^{+5}_{-0.0011} \\ 0.00477^{+0.0012}_{-0.0013} \end{array}$	809	$\begin{array}{c} 0.33188^{+0.045}_{-0.065} \\ 0.36811^{+0.063}_{-0.087} \end{array}$	$\begin{array}{c} 0.37703^{+0.037}_{-0.044} \\ 0.42005^{+0.049}_{-0.06} \\ 0.40547^{+0.046}_{-0.057} \\ \textbf{0.17714}^{+0.017}_{-0.022} \\ 0.91959^{+0.078}_{-0.098} \end{array}$	702
$t_{\overline{ ext{KS}}}$	$0.00375^{+0.0013}_{-0.0017}$	$0.00477^{+0.0012}_{-0.0013}$	944	$0.36811^{+0.063}_{-0.087}$	$0.42005^{+0.049}_{-0.06}$	762
$t_{ m SKS}$	$0.0036^{+0.0011}_{-0.0014}$	$0.00449_{-0.0012}^{+0.001}$	1262	$0.36186^{+0.052}_{-0.076}$	$0.40547^{+0.046}_{-0.057}$	1001
$t_{ m FGD}$	$0.00325^{+0.0014}_{-0.0016}$	$0.00449^{+0.001}_{-0.0012}$ $0.00409^{+0.0012}_{-0.0012}$	12398	$0.15873^{+0.02}_{-0.036}$	$0.17714^{+0.017}_{-0.022}$	7779
$t_{ m MMD}$	$0.00207^{+0.0012}_{-0.0011}$	$0.00273^{+0.0012}_{-0.00095}$	9933	$\begin{array}{c} 0.36811^{+0.003}_{-0.087} \\ 0.36186^{+0.052}_{-0.076} \\ \textbf{0.15873}^{+0.02}_{-0.036} \\ 0.79853^{+0.11}_{-0.16} \end{array}$	$0.91959^{+0.078}_{-0.098}$	6228
$t_{ m LLR}$	$0.00018^{+0.0001}_{-0.0001}$	$\begin{array}{c} \textbf{0.00273} \begin{array}{c} -0.0012 \\ \textbf{0.00273} \begin{array}{c} -0.00095 \\ -0.00011 \end{array} \\ 0.00023 \begin{array}{c} +0.00011 \\ -0.0001 \end{array} \end{array}$	9090	-	-	-
$\mathcal{U} ext{-} ext{deformation}$					Timing	
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{U}}$	t (s)	t^{null} (s)		
$t_{ m FGD}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0.30784^{+0.029}_{-0.038}$	7276	16484		
$t_{ m LLR}$	-	-	-	-		
$t_{ m MMD}$	$1.39355^{+0.19}_{-0.28}$	$1.59398^{+0.15}_{-0.18}$	7134	14531		
$t_{ m SKS}$	$0.62476^{+0.091}_{-0.12}$	$0.7049^{+0.075}_{-0.027}$	935	1044		
$t_{ m SW}$	$0.57515^{+0.082}_{-0.11}$	$0.6534^{+0.065}_{-0.077}$	$\boldsymbol{662}$	337		
$t_{\overline{ ext{KS}}}$	$0.64154_{-0.15}^{+0.11}$	$0.73314_{-0.11}^{+0.076}$	744	789		