CG model with $d = 100$ and $n = m = 2 \cdot 10^4$						
	μ-α	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)
$t_{ m SW}$	$0.05955^{+0.021}_{-0.023}$	$0.07615^{+0.019}_{-0.021}$	890	$ \begin{array}{c c} 0.0225^{+0.0073}_{-0.0082} \\ 0.02825^{+0.0094}_{-0.01200} \end{array} $	$\begin{array}{c} 0.02867^{+0.0068}_{-0.0069} \\ 0.03574^{+0.0088}_{-0.0095} \end{array}$	954
$t_{\overline{ ext{KS}}}$	$0.05834^{+0.019}_{-0.022}$	$0.07252^{+0.019}_{-0.019}$	802	$0.02825^{+0.0032}_{-0.01}$	$0.03574^{+0.0088}_{-0.0095}$	861
$t_{ m SKS}$	$ \begin{array}{c c} 0.06195^{+0.021}_{-0.023} \\ 0.06396^{+0.025}_{-0.024} \end{array} $	$0.07913_{-0.021}^{+0.019} \\ 0.07971_{-0.021}^{+0.022}$	1200	$\begin{array}{c} -0.02901^{+0.0093}_{-0.011} \\ 0.02023^{+0.0075}_{-0.0082} \end{array}$	$0.03683^{+0.0086}_{-0.0092}$	1080
$t_{ m FGD}$	$0.06396^{+0.025}_{-0.024}$	$0.07971^{+0.022}_{-0.021}$	5360	$0.02023^{+0.0075}_{-0.0082}$	$0.02523^{+0.0066}_{-0.0069}$	5467
$t_{ m MMD}$	$\mid 0.04176^{+0.022}_{-0.018} \mid$	$0.05326^{+0.021}_{-0.017}$	1934		$0.03445^{+0.011}_{-0.004}$	1959
$t_{ m NPLM}$	-0.00494 ± 0.007	0.00000 ± 0.0062	3112	$\begin{array}{c} 0.02689^{+0.012}_{-0.01} \\ 0.00698^{+0.0023}_{-0.0029} \end{array}$	$0.00849^{+0.002}_{-0.0023}$	3381
$t_{ m LLR}$	$\begin{array}{c} 0.02434 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$0.02932_{-0.0073}^{+0.0026} \\ 0.0055_{-0.0026}^{+0.0026}$	3816	$\begin{array}{c} 0.00698^{+0.0029}_{-0.0029} \\ 0.00074^{+0.00053}_{-0.00053} \end{array}$	$0.00849_{-0.0023}^{+0.002} \\ 0.00108_{-0.00052}^{+0.00052}$	4378
$\Sigma_{i \neq j}$ -deformation				pow_+ -deformation		
Statistic	$\epsilon_{95\%{ m CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.0527^{+0.013}_{-0.017}$	$0.06819_{-0.013}^{+0.011} \\ 1.03113_{-0.003}^{+0.015}$	3438	$0.00495^{+0.0017}_{-0.0019}$	$0.00629^{+0.0017}_{-0.0016}$	978
$t_{\overline{ ext{KS}}}$	$1.02602^{+0.0091}_{-0.007}$	$1.03113_{-0.003}^{+0.015}$	7951	$0.00613^{+0.0019}_{-0.0022}$	$0.00754^{+0.0018}_{-0.0019}$	896
$t_{ m SKS}$	$0.0706^{+0.019}_{-0.025}$	$0.0902^{+0.019}_{-0.021}$	4340	$0.00572^{+0.0019}_{-0.0021}$	$0.00714^{+0.0018}_{-0.0018}$	1180
$t_{ m FGD}$	$0.00469^{+0.0013}_{-0.0017}$	$0.00589^{+0.0012}_{-0.0014}$	9541	$0.00494^{+0.0019}_{-0.002}$	$0.00613^{+0.0018}_{-0.0017}$	6351
$t_{ m MMD}$	$0.03593^{+0.016}_{-0.014}$	$0.04603_{-0.013}^{+0.014} \\ 0.01533_{-0.0041}^{+0.0028}$	7506	$0.00332^{+0.0018}$	$0.00423^{+0.0017}_{-0.0013}$	2150
$t_{ m NPLM}$	$0.01259^{+0.0036}_{-0.0055}$	$0.01533^{+0.0028}_{-0.0041}$	5423	-0.0000 ± 0.00074	$0.00284^{+0.00064}_{-0.00076}$	3626
$t_{ m LLR}$	-	-	_	$\begin{array}{c} 0.00233^{+0.00095}_{-0.00095} \\ 0.00021^{+0.00015}_{-0.00015} \end{array}$	$\begin{array}{c} 0.00284^{+0.00064}_{-0.00076} \\ 0.00032^{+0.00015}_{-0.00015} \end{array}$	4341
$pow\deformation$			$\mathcal{N} ext{-} ext{deformation}$			
Statistic	$\epsilon_{95\%{ m CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%{ m CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.00508^{+5}_{-0.0017}$	$0.00647^{+5}_{-0.0015}$	915	$0.41334^{+0.062}_{-0.084}$	$0.46898^{+0.052}_{-0.058}$	805
$t_{\overline{ ext{KS}}}$	$0.00597^{+0.0019}_{-0.0021}$	$0.0074^{+0.0017}_{-0.0018}$	900	$0.46482^{+0.07}_{-0.097}$	$0.52444^{+0.056}_{-0.075}$	731
$t_{ m SKS}$	$0.00563^{+0.0017}_{-0.002}$	$0.00704^{+0.0016}_{-0.0017}$	1185	$0.44843^{+0.067}_{-0.096}$	$0.52444^{+0.056}_{-0.075} \\ 0.50879^{+0.057}_{-0.069}$	928
$t_{ m FGD}$	$ \begin{array}{c} -0.0021 \\ 0.00563 ^{+0.0017}_{-0.002} \\ 0.00508 ^{+0.0017}_{-0.0018} \end{array} $	$0.00625^{+0.0016}_{-0.015}$	6610	$\mid 0.1987^{+0.025}_{-0.037} \mid$	$0.22055^{+0.021}_{-0.025}$	5119
$t_{ m MMD}$	$0.00353^{+0.0019}_{-0.0016}$	$0.0045^{+0.0018}_{-0.0014}$	2116	$1.01973^{+0.13}_{-0.17}$	$1.1523^{+0.097}_{-0.11}$	1563
$t_{ m NPLM}$	$\begin{array}{c} 0.00281^{+0.00078}_{-0.001} \\ 0.00028^{+0.00015}_{-0.00015} \end{array}$	$0.00331^{+0.00072}_{-0.00081}$	3423	$0.26099^{+0.054}_{-0.11}$	$1.1523^{+0.097}_{-0.11} \\ 0.29838^{+0.045}_{-0.064}$	2643
$t_{ m LLR}$	$0.00028^{+0.00015}_{-0.00015}$	$\begin{array}{c} 0.0045^{+0.0018}_{-0.0014} \\ 0.0045^{+0.0018}_{-0.0014} \\ 0.00331^{+0.00072}_{-0.00081} \\ 0.00039^{+0.00015}_{-0.00015} \end{array}$	4141	-	-	
\mathcal{U} -deformation			Timing			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	t^{null} (s)		
$t_{ m SW}$	$0.71388^{+0.11}_{-0.14}$	$0.81581^{+0.084}_{-0.1}$	775	294		
$t_{\overline{ ext{KS}}}$	L · · · · ±0.19	0.00000+0.1	710	527		
$t_{ m SKS}$	$0.77724^{+0.12}_{-0.16}$	$0.88187^{+0.098}_{-0.13}$	913	592		
$t_{ m FGD}$	U.34∠UU_ _{0.065}	$0.90238_{-0.13}^{+0.13}$ $0.88187_{-0.13}^{+0.098}$ $0.38262_{-0.044}^{+0.033}$	4326	7457		
$t_{ m MMD}$	$ \begin{array}{c c} 1.76762^{+0.21}_{-0.3} \\ 0.44585^{+0.099}_{-0.17} \end{array} $	$1.99743^{+0.17}_{-0.19}$	1492	2390		
$t_{ m NPLM}$	$0.44585^{+0.099}_{-0.17}$	$0.51708^{+0.076}_{-0.11}$	2481	5558		
$t_{ m LLR}$	-	-	-	-		