CG model with d = 20 and n = m = $5 \cdot 10^4$

	μ-deformation			Σ_{ii}-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.04948^{+0.022}_{-0.021}$	$0.06621^{+0.021}_{-0.02}$	571	$0.02059^{+0.0066}_{-0.0078}$	$0.02732^{+0.0061}_{-0.0065}$	617
$t_{\overline{\text{KS}}}$	$\mathbf{0.04811^{+0.022}_{-0.021}}$	$0.06605^{+0.021}_{-0.02}$	**407**	$0.02898^{+0.011}_{-0.012}$	$0.04029^{+0.0097}_{-0.01}$	**434**
t_{SKS}	$0.04841^{+0.021}_{-0.021}$	$\mathbf{0.06372^{+0.02}_{-0.02}}$	655	$0.02623^{+0.0087}_{-0.01}$	$0.03417^{+0.0082}_{-0.0086}$	694
t_{FGD}	$0.05029^{+0.026}_{-0.022}$	$0.06539^{+0.024}_{-0.02}$	1886	$\mathbf{0.01695^{+0.007}_{-0.007}}$	$\mathbf{0.02215^{+0.0065}_{-0.0059}}$	1994
t_{MMD}	$0.0596^{+0.028}_{-0.02}$	$0.08041^{+0.026}_{-0.02}$	7733	$0.02325^{+0.011}_{-0.0079}$	$0.03109^{+0.01}_{-0.0079}$	8173
t_{LLR}	$0.00556^{+0.0031}_{-0.003}$	$0.00795^{+0.003}_{-0.003}$	2441	$0.00153^{+0.001}_{-0.00098}$	$0.0022^{+0.00098}_{-0.00099}$	3081

	$\Sigma_{i \neq j}$-deformation			pow_+-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\text{pow}_+}_{99\%\text{CL}}$	t (s)
t_{SW}	$0.01294^{+0.0037}_{-0.0048}$	$0.01819^{+0.0032}_{-0.0038}$	2698	$0.0046^{+0.0017}_{-0.0019}$	$0.00614^{+0.0016}_{-0.0017}$	642
$t_{\overline{\text{KS}}}$	$1.02831^{+0.015}_{-0.015}$	$1.04211^{+0.0046}_{-0.012}$	**2603**	$0.00602^{+0.002}_{-0.0024}$	$0.00806^{+0.0019}_{-0.0019}$	**459**
t_{SKS}	$0.0152^{+0.0051}_{-0.0061}$	$0.0206^{+0.0049}_{-0.0052}$	2844	$0.00505^{+0.0017}_{-0.002}$	$0.00646^{+0.0016}_{-0.0017}$	747
t_{FGD}	$\mathbf{0.0025^{+0.00061}_{-0.0007}}$	$\mathbf{0.00319^{+0.00052}_{-0.00049}}$	5804	$0.00419^{+0.0019}_{-0.0018}$	$0.0054^{+0.0017}_{-0.0015}$	2765
t_{MMD}	$0.01319^{+0.0073}_{-0.0053}$	$0.01818^{+0.0067}_{-0.0053}$	11064	$\mathbf{0.00358^{+0.0018}_{-0.0012}}$	$\mathbf{0.00483^{+0.0016}_{-0.0013}}$	8839
t_{LLR}	$0.01503^{+0.0043}_{-0.0066}$	$0.01793^{+0.0044}_{-0.006}$	5998	$0.00042^{+0.00025}_{-0.00026}$	$0.00061^{+0.00025}_{-0.00025}$	2919

	pow_--deformation			$\mathcal{N}$-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\text{pow}_-}_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\mathcal{N}}_{99\%\text{CL}}$	t (s)
t_{SW}	$0.00455^{+5}_{-0.0017}$	$0.00609^{+5}_{-0.0015}$	587	$0.28641^{+0.047}_{-0.065}$	$0.33654^{+0.037}_{-0.046}$	535
$t_{\overline{\text{KS}}}$	$0.00575^{+0.002}_{-0.0022}$	$0.00773^{+0.0018}_{-0.0019}$	**461**	$0.32182^{+0.055}_{-0.08}$	$0.3832^{+0.045}_{-0.054}$	**393**
t_{SKS}	$0.00487^{+0.0017}_{-0.0019}$	$0.00632^{+0.0016}_{-0.0017}$	750	$0.28237^{+0.046}_{-0.066}$	$0.32811^{+0.038}_{-0.048}$	612
t_{FGD}	$0.00411^{+0.0017}_{-0.0015}$	$0.0054^{+0.0015}_{-0.0014}$	2758	$\mathbf{0.16992^{+0.02}_{-0.03}}$	$\mathbf{0.1944^{+0.014}_{-0.018}}$	2132
t_{MMD}	$\mathbf{0.00346^{+0.0019}_{-0.0014}}$	$\mathbf{0.00477^{+0.0018}_{-0.0014}}$	8990	$0.73852^{+0.086}_{-0.091}$	$0.85602^{+0.075}_{-0.062}$	5790
t_{LLR}	$0.00042^{+0.00025}_{-0.00026}$	$0.0006^{+0.00025}_{-0.00025}$	2930	-	-	-

	$\mathcal{U}$-deformation			Timing
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\mathcal{U}}_{99\%\text{CL}}$	t (s)	t^{null} (s)
t_{FGD}	$\mathbf{0.2926^{+0.036}_{-0.05}}$	$\mathbf{0.33697^{+0.025}_{-0.034}}$	2042	3821
t_{LLR}	-	-	-	-
t_{MMD}	$1.28521^{+0.15}_{-0.17}$	$1.49004^{+0.11}_{-0.12}$	6502	13843
t_{SKS}	$0.48849^{+0.085}_{-0.11}$	$0.56476^{+0.072}_{-0.079}$	582	480
t_{SW}	$0.49513^{+0.079}_{-0.11}$	$0.5818^{+0.063}_{-0.078}$	512	313
$t_{\overline{\text{KS}}}$	$0.55562^{+0.096}_{-0.14}$	$0.65585^{+0.083}_{-0.089}$	**378**	**127**