CG model with d = 20 and n = m = $2 \cdot 10^4$

	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}	$0.07086^{+0.034}_{-0.031}$	$0.09763^{+0.033}_{-0.03}$	496	$0.03243^{+0.0098}_{-0.01}$	$0.04336^{+0.0093}_{-0.0091}$	525
$t_{\overline{\text{KS}}}$	$\mathbf{0.06957^{+0.034}_{-0.032}}$	$\mathbf{0.09504^{+0.032}_{-0.032}}$	**366**	$0.04632^{+0.015}_{-0.015}$	$0.06199^{+0.014}_{-0.014}$	**387**
t_{SKS}	$0.0699^{+0.033}_{-0.031}$	$0.09548^{+0.032}_{-0.03}$	579	$0.04131^{+0.013}_{-0.014}$	$0.05484^{+0.012}_{-0.012}$	620
t_{FGD}	$0.07185^{+0.041}_{-0.032}$	$0.09756^{+0.038}_{-0.03}$	1094	$\mathbf{0.0269^{+0.01}_{-0.0088}}$	$\mathbf{0.03574^{+0.0091}_{-0.0081}}$	1179
t_{MMD}	$0.08449^{+0.064}_{-0.049}$	$0.11846^{+0.06}_{-0.045}$	1574	$0.03081^{+0.026}_{-0.018}$	$0.04364^{+0.024}_{-0.017}$	1679
t_{LLR}	$0.01053^{+0.0046}_{-0.0046}$	$0.01415^{+0.0045}_{-0.0047}$	1306	$0.00253^{+0.0013}_{-0.0014}$	$0.00353^{+0.0013}_{-0.0014}$	1504

	$\Sigma_{i\neq j}$-deformation			pow_+-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.04358^{+0.011}_{-0.013}$	$0.06168^{+0.0092}_{-0.01}$	**1024**	$0.00681^{+0.0027}_{-0.0027}$	$0.00928^{+0.0025}_{-0.0025}$	566
$t_{\overline{\text{KS}}}$	$1.04753^{+0.011}_{-0.016}$	$1.06042^{+0.017}_{-0.011}$	1376	$0.00901^{+0.0033}_{-0.0034}$	$0.01206^{+0.003}_{-0.0032}$	**422**
t_{SKS}	$0.05959^{+0.016}_{-0.02}$	$0.08015^{+0.015}_{-0.016}$	1128	$0.00745^{+0.0027}_{-0.0029}$	$0.0099^{+0.0025}_{-0.0026}$	632
t_{FGD}	$\mathbf{0.00749^{+0.0018}_{-0.0019}}$	$\mathbf{0.01011^{+0.0016}_{-0.0017}}$	2468	$0.00623^{+0.003}_{-0.0025}$	$0.00837^{+0.0027}_{-0.0023}$	1085
t_{MMD}	$0.05154^{+0.032}_{-0.023}$	$0.07052^{+0.032}_{-0.022}$	2534	$\mathbf{0.00488^{+0.0042}_{-0.0029}}$	$\mathbf{0.00687^{+0.0039}_{-0.0027}}$	1853
t_{LLR}	-	-	-	$0.00069^{+0.0004}_{-0.0004}$	$0.00098^{+0.00039}_{-0.0004}$	1628

	pow_-deformation			$\mathcal{N}$-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.00748^{+5}_{-0.0026}$	$0.01003^{+5}_{-0.0024}$	513	$0.36054^{+0.048}_{-0.063}$	$0.42418^{+0.041}_{-0.045}$	472
$t_{\overline{\text{KS}}}$	$0.00946^{+0.003}_{-0.0031}$	$0.01227^{+0.0029}_{-0.0028}$	**418**	$0.40421^{+0.061}_{-0.079}$	$0.47653^{+0.053}_{-0.058}$	**353**
t_{SKS}	$0.00803^{+0.0027}_{-0.0029}$	$0.01046^{+0.0025}_{-0.0026}$	635	$0.35347^{+0.055}_{-0.07}$	$0.41869^{+0.042}_{-0.056}$	519
t_{FGD}	$0.0067^{+0.0027}_{-0.0023}$	$0.00886^{+0.0025}_{-0.0021}$	1090	$\mathbf{0.21348^{+0.022}_{-0.03}}$	$\mathbf{0.24723^{+0.014}_{-0.019}}$	850
t_{MMD}	$\mathbf{0.00568^{+0.0037}_{-0.0025}}$	$\mathbf{0.00784^{+0.0036}_{-0.0025}}$	1925	$0.87964^{+0.19}_{-0.23}$	$1.04846^{+0.14}_{-0.15}$	1413
t_{LLR}	$0.00061^{+0.0004}_{-0.0004}$	$0.0009^{+0.00039}_{-0.0004}$	1652	-	-	-

	$\mathcal{U}$-deformation			Timing
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	t^{null} (s)
t_{FGD}	$\mathbf{0.37006^{+0.038}_{-0.053}}$	$\mathbf{0.42858^{+0.025}_{-0.033}}$	812	1150
t_{LLR}	-	-	-	-
t_{MMD}	$1.53597^{+0.32}_{-0.42}$	$1.81389^{+0.26}_{-0.27}$	1386	2284
t_{SKS}	$0.61401^{+0.092}_{-0.12}$	$0.72149^{+0.078}_{-0.092}$	505	398
t_{SW}	$0.62405^{+0.086}_{-0.1}$	$0.73669^{+0.072}_{-0.076}$	458	276
$t_{\overline{\text{KS}}}$	$0.69433^{+0.11}_{-0.13}$	$0.8144^{+0.099}_{-0.1}$	**337**	**108**