

CG model with $d = 20$ and $n = m = 2 \cdot 10^4$						
Statistic	$\mu$ -deformation			$\Sigma_{ii}$ -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	$t$ (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	$t$ (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
$t_{\overline{KS}}$	<b><math>0.06957^{+0.034}_{-0.032}</math></b>	<b><math>0.09504^{+0.032}_{-0.032}</math></b>	<b>366</b>	$0.04632^{+0.015}_{-0.015}$	$0.06199^{+0.014}_{-0.014}$	<b>387</b>
$t_{SKS}$	$0.0699^{+0.033}_{-0.031}$	$0.09548^{+0.032}_{-0.03}$	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	<b><math>0.0269^{+0.01}_{-0.0088}</math></b>	<b><math>0.03574^{+0.0091}_{-0.0081}</math></b>	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
$t_{NPLM}$	$0.04207^{+0.014}_{-0.018}$	$0.05062^{+0.013}_{-0.014}$	1947	$0.01299^{+0.0044}_{-0.0059}$	$0.01594^{+0.0039}_{-0.0046}$	2165
$t_{NPLM}$	$0.05351^{+0.017}_{-0.022}$	$0.06383^{+0.016}_{-0.018}$	23774	$0.01378^{+0.0048}_{-0.0065}$	$0.01685^{+0.0043}_{-0.0051}$	26822
$t_{LLR}$	$0.01053^{+0.0046}_{-0.0046}$	$0.01415^{+0.0045}_{-0.0047}$	1306	$0.00253^{+0.0013}_{-0.0014}$	$0.00353^{+0.0013}_{-0.0014}$	1504
Statistic	$\Sigma_{i \neq j}$ -deformation			pow <sub>+</sub> -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	$t$ (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	$t$ (s)
$t_{SW}$	$0.04358^{+0.011}_{-0.013}$	$0.06168^{+0.0092}_{-0.01}$	<b>1024</b>	$0.00681^{+0.0027}_{-0.0027}$	$0.00928^{+0.0025}_{-0.0025}$	566
$t_{\overline{KS}}$	$1.04753^{+0.011}_{-0.016}$	$1.06042^{+0.017}_{-0.011}$	1376	$0.00901^{+0.0033}_{-0.0034}$	$0.01206^{+0.003}_{-0.0032}$	<b>422</b>
$t_{SKS}$	$0.05959^{+0.016}_{-0.02}$	$0.08015^{+0.015}_{-0.016}$	1128	$0.00745^{+0.0027}_{-0.0029}$	$0.0099^{+0.0025}_{-0.0026}$	632
$t_{FGD}$	<b><math>0.00749^{+0.0018}_{-0.0019}</math></b>	<b><math>0.01011^{+0.0016}_{-0.0017}</math></b>	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	<b><math>0.00488^{+0.0042}_{-0.0029}</math></b>	<b><math>0.00687^{+0.0039}_{-0.0027}</math></b>	1853
$t_{NPLM}$	$0.00331^{+0.0013}_{-0.0015}$	$0.00417^{+0.0011}_{-0.0013}$	2864	$0.00377^{+0.0014}_{-0.0018}$	$0.00459^{+0.0012}_{-0.0014}$	2455
$t_{NPLM}$	$0.00271^{+0.0012}_{-0.0015}$	$0.00347^{+0.0012}_{-0.0013}$	36589	$0.00391^{+0.0015}_{-0.0019}$	$0.00478^{+0.0013}_{-0.0016}$	33561
$t_{LLR}$	-	-	-	$0.00069^{+0.0004}_{-0.0004}$	$0.00098^{+0.00039}_{-0.0004}$	1628
Statistic	pow <sub>-</sub> -deformation			$\mathcal{N}$ -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	$t$ (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	$t$ (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
$t_{\overline{KS}}$	$0.00946^{+0.003}_{-0.0031}$	$0.01227^{+0.0029}_{-0.0028}$	<b>418</b>	$0.40421^{+0.061}_{-0.079}$	$0.47653^{+0.053}_{-0.058}$	<b>353</b>
$t_{SKS}$	$0.00803^{+0.0027}_{-0.0029}$	$0.01046^{+0.0025}_{-0.0026}$	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	<b><math>0.21348^{+0.022}_{-0.03}</math></b>	<b><math>0.24723^{+0.014}_{-0.019}</math></b>	850
$t_{MMD}$	<b><math>0.00568^{+0.0037}_{-0.0025}</math></b>	<b><math>0.00784^{+0.0036}_{-0.0025}</math></b>	1925	$0.87964^{+0.19}_{-0.23}$	$1.04846^{+0.14}_{-0.15}$	1413
$t_{NPLM}$	$0.0044^{+0.0015}_{-0.0019}$	$0.00523^{+0.0013}_{-0.0015}$	2299	$0.12476^{+0.019}_{-0.031}$	$0.13748^{+0.015}_{-0.022}$	1812
$t_{NPLM}$	$0.00528^{+0.0015}_{-0.0018}$	$0.00617^{+0.0013}_{-0.0015}$	26885	$0.09544^{+0.016}_{-0.026}$	$0.10546^{+0.014}_{-0.018}$	21954
$t_{LLR}$	$0.00061^{+0.0004}_{-0.0004}$	$0.0009^{+0.00039}_{-0.0004}$	1652	-	-	-
Statistic	$\mathcal{U}$ -deformation			Timing		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	$t$ (s)	$t^{\text{null}}$ (s)		
$t_{SW}$	$0.62405^{+0.086}_{-0.1}$	$0.73669^{+0.072}_{-0.076}$	458	276		
$t_{\overline{KS}}$	$0.69433^{+0.11}_{-0.13}$	$0.8144^{+0.099}_{-0.1}$	<b>337</b>	<b>108</b>		
$t_{SKS}$	$0.61401^{+0.092}_{-0.12}$	$0.72149^{+0.078}_{-0.092}$	505	398		
$t_{FGD}$	<b><math>0.37006^{+0.038}_{-0.053}</math></b>	<b><math>0.42858^{+0.025}_{-0.033}</math></b>	812	1150		
$t_{MMD}$	$1.53597^{+0.32}_{-0.42}$	$1.81389^{+0.26}_{-0.27}$	1386	2284		
$t_{NPLM}$	$0.21588^{+0.033}_{-0.054}$	$0.23788^{+0.027}_{-0.035}$	1695	3480		
$t_{NPLM}$	$0.16518^{+0.028}_{-0.046}$	$0.18251^{+0.024}_{-0.031}$	21414	44027		
$t_{LLR}$	-	-	-	-		