

CG model with d = 20 and n = m = 10 ⁴						
Statistic	μ -deformation			Σ_{ii} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{SW}	0.10922 ^{+0.046} _{-0.042}	0.14806 ^{+0.045} _{-0.041}	839	0.04571 ^{+0.015} _{-0.017}	0.0619 ^{+0.014} _{-0.014}	886
$t_{\overline{KS}}$	0.10878 ^{+0.041} _{-0.041}	0.1457 ^{+0.038} _{-0.039}	395	0.06569 ^{+0.022} _{-0.024}	0.08903 ^{+0.021} _{-0.021}	439
t_{SKS}	0.11095 ^{+0.042} _{-0.041}	0.14448 ^{+0.042} _{-0.039}	754	0.0585 ^{+0.02} _{-0.021}	0.07738 ^{+0.018} _{-0.019}	794
t_{FGD}	0.10722^{+0.053}_{-0.044}	0.14391^{+0.049}_{-0.04}	675	0.03724^{+0.015}_{-0.014}	0.04968^{+0.014}_{-0.012}	719
t_{MMD}	0.13235 ^{+0.087} _{-0.058}	0.18033 ^{+0.081} _{-0.057}	482	0.05044 ^{+0.038} _{-0.023}	0.06855 ^{+0.035} _{-0.023}	527
t_{NPLM}	0.0575 ^{+0.018} _{-0.023}	0.07103 ^{+0.017} _{-0.018}	1030	0.01744 ^{+0.0073} _{-0.0086}	0.02211 ^{+0.0066} _{-0.007}	1097
t_{LLR}	0.01214 ^{+0.0077} _{-0.0077}	0.0172 ^{+0.0078} _{-0.0077}	948	0.00388 ^{+0.0021} _{-0.0021}	0.00519 ^{+0.0021} _{-0.0021}	1025
Statistic	$\Sigma_{i \neq j}$ -deformation			pow ₊ -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{SW}	0.06146 ^{+0.017} _{-0.021}	0.08828 ^{+0.014} _{-0.016}	1046	0.01011 ^{+0.0037} _{-0.0037}	0.01382 ^{+0.0034} _{-0.0034}	1007
$t_{\overline{KS}}$	1.06868 ^{+0.021} _{-0.023}	1.09302 ^{+0.015} _{-0.026}	1523	0.01342 ^{+0.0044} _{-0.0046}	0.01781 ^{+0.004} _{-0.004}	463
t_{SKS}	0.08431 ^{+0.026} _{-0.027}	0.11388 ^{+0.022} _{-0.023}	1122	0.01131 ^{+0.0038} _{-0.0039}	0.01462 ^{+0.0034} _{-0.0036}	856
t_{FGD}	0.01073^{+0.0029}_{-0.0036}	0.01457^{+0.0025}_{-0.0027}	1959	0.00904 ^{+0.004} _{-0.0035}	0.01206 ^{+0.0035} _{-0.0031}	767
t_{MMD}	0.05682 ^{+0.056} _{-0.038}	0.08384 ^{+0.049} _{-0.037}	1598	0.00794^{+0.0059}_{-0.0037}	0.01072^{+0.0056}_{-0.0036}	564
t_{NPLM}	0.00493 ^{+0.0019} _{-0.0023}	0.00649 ^{+0.0016} _{-0.0018}	1627	0.0051 ^{+0.0018} _{-0.0022}	0.00643 ^{+0.0016} _{-0.0017}	1227
t_{LLR}	-	-	-	0.00097 ^{+0.00057} _{-0.00057}	0.00133 ^{+0.00058} _{-0.00057}	1265
Statistic	pow ₋ -deformation			\mathcal{N} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{SW}	0.00994 ⁺¹⁰ _{-0.0041}	0.0137 ⁺¹⁰ _{-0.0037}	479	0.42914 ^{+0.071} _{-0.094}	0.50927 ^{+0.058} _{-0.064}	437
$t_{\overline{KS}}$	0.01288 ^{+0.0046} _{-0.0051}	0.01711 ^{+0.0041} _{-0.0045}	569	0.48722 ^{+0.077} _{-0.11}	0.58312 ^{+0.061} _{-0.08}	461
t_{SKS}	0.01084 ^{+0.0039} _{-0.0043}	0.01413 ^{+0.0036} _{-0.0039}	875	0.42867 ^{+0.072} _{-0.09}	0.49965 ^{+0.059} _{-0.072}	865
t_{FGD}	0.00894 ^{+0.0043} _{-0.0037}	0.01218 ^{+0.0038} _{-0.0034}	767	0.25332^{+0.031}_{-0.044}	0.29566^{+0.021}_{-0.028}	622
t_{MMD}	0.00626^{+0.0064}_{-0.0042}	0.00942^{+0.0059}_{-0.0042}	591	1.07127 ^{+0.17} _{-0.21}	1.26293 ^{+0.14} _{-0.14}	450
t_{NPLM}	0.00629 ^{+0.002} _{-0.0025}	0.00765 ^{+0.0018} _{-0.002}	1172	0.14723 ^{+0.019} _{-0.033}	0.16327 ^{+0.017} _{-0.021}	932
t_{LLR}	0.0009 ^{+0.00057} _{-0.00058}	0.00129 ^{+0.00057} _{-0.00058}	1055	-	-	-
Statistic	\mathcal{U} -deformation			Timing		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	t^{null} (s)		
t_{SW}	0.74247 ^{+0.12} _{-0.16}	0.88112 ^{+0.1} _{-0.11}	427	255		
$t_{\overline{KS}}$	0.82685 ^{+0.14} _{-0.16}	0.98617 ^{+0.1} _{-0.13}	472	91		
t_{SKS}	0.73953 ^{+0.12} _{-0.16}	0.86741 ^{+0.11} _{-0.13}	847	338		
t_{FGD}	0.4427^{+0.051}_{-0.077}	0.50983^{+0.038}_{-0.043}	555	596		
t_{MMD}	1.84547 ^{+0.31} _{-0.37}	2.19008 ^{+0.25} _{-0.22}	500	210		
t_{NPLM}	0.25377 ^{+0.036} _{-0.058}	0.28498 ^{+0.026} _{-0.039}	887	1384		
t_{LLR}	-	-	-	-		