CG model with $d = 100$ and $n = m = 5 \cdot 10^4$

μ-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.03802^{+0.011}_{-0.013}$	$0.0489^{+0.0099}_{-0.011}$	857
$t_{\overline{\mathrm{KS}}}$	$0.03575^{+0.012}_{-0.015}$	$0.04605^{+0.011}_{-0.012}$	**833**
t_{SKS}	$0.03957^{+0.011}_{-0.014}$	$0.05019^{+0.01}_{-0.011}$	1038
t_{FGD}	$0.04169^{+0.014}_{-0.016}$	$0.05238^{+0.012}_{-0.013}$	11537
t_{MMD}	$\mathbf{0.02696^{+0.015}_{-0.013}}$	$\mathbf{0.0351^{+0.014}_{-0.011}}$	8530
t_{LLR}	$0.00244^{+0.0015}_{-0.0015}$	$0.00345^{+0.0015}_{-0.0015}$	8119

Σ_{ii}-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.01458^{+0.0043}_{-0.0051}$	$0.01856^{+0.0039}_{-0.004}$	**822**
$t_{\overline{\mathrm{KS}}}$	$0.01795^{+0.0061}_{-0.0076}$	$0.02313^{+0.0057}_{-0.0062}$	883
t_{SKS}	$0.01894^{+0.0059}_{-0.0072}$	$0.02379^{+0.0053}_{-0.0061}$	1141
t_{FGD}	$\mathbf{0.01306^{+0.0042}_{-0.005}}$	$\mathbf{0.01641^{+0.0039}_{-0.0039}}$	10029
t_{MMD}	$0.01695^{+0.0078}_{-0.0074}$	$0.02212^{+0.0073}_{-0.0062}$	8705
t_{LLR}	$0.0005^{+0.00035}_{-0.00035}$	$0.0007^{+0.00035}_{-0.00035}$	9217

$\Sigma_{i\neq j}$-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.03389^{+0.0097}_{-0.013}$	$0.04416^{+0.0083}_{-0.0098}$	**3322**
$t_{\overline{\mathrm{KS}}}$	$1.01718^{+0.01}_{-0.0089}$	$1.0202^{+0.009}_{-0.003}$	6142
t_{SKS}	$0.04593^{+0.015}_{-0.018}$	$0.05872^{+0.013}_{-0.015}$	3722
t_{FGD}	$\mathbf{0.00311^{+0.00099}_{-0.0012}}$	$\mathbf{0.0039^{+0.0008}_{-0.0009}}$	17716
t_{MMD}	$0.02172^{+0.011}_{-0.01}$	$0.02865^{+0.0098}_{-0.0089}$	12459
t_{LLR}	-	-	-

pow_+-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.00319^{+0.00091}_{-0.0011}$	$0.00408^{+0.0008}_{-0.00089}$	**875**
$t_{\overline{\mathrm{KS}}}$	$0.00377^{+0.0011}_{-0.0015}$	$0.0048^{+0.001}_{-0.0011}$	938
t_{SKS}	$0.00365^{+0.00095}_{-0.0012}$	$0.00455^{+0.00087}_{-0.00099}$	1271
t_{FGD}	$0.00319^{+0.001}_{-0.0012}$	$0.00401^{+0.001}_{-0.00095}$	8636
t_{MMD}	$\mathbf{0.00213^{+0.0012}_{-0.001}}$	$\mathbf{0.00278^{+0.0011}_{-0.00089}}$	9610
t_{LLR}	$0.00014^{+0.0001}_{-0.0001}$	$0.0002^{+0.0001}_{-0.0001}$	9983

pow_--deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.00326^{+5}_{-0.0014}$	$0.00416^{+5}_{-0.0011}$	**809**
$t_{\overline{\mathrm{KS}}}$	$0.00375^{+0.0013}_{-0.0017}$	$0.00477^{+0.0012}_{-0.0013}$	944
t_{SKS}	$0.0036^{+0.0011}_{-0.0014}$	$0.00449^{+0.001}_{-0.0012}$	1262
t_{FGD}	$0.00325^{+0.0014}_{-0.0016}$	$0.00409^{+0.0012}_{-0.0012}$	12398
t_{MMD}	$\mathbf{0.00207^{+0.0012}_{-0.0011}}$	$\mathbf{0.00273^{+0.0012}_{-0.00095}}$	9933
t_{LLR}	$0.00018^{+0.0001}_{-0.0001}$	$0.00023^{+0.00011}_{-0.0001}$	9090

$\mathcal{N}$-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.33188^{+0.045}_{-0.065}$	$0.37703^{+0.037}_{-0.044}$	**702**
$t_{\overline{\mathrm{KS}}}$	$0.36811^{+0.063}_{-0.087}$	$0.42005^{+0.049}_{-0.06}$	762
t_{SKS}	$0.36186^{+0.052}_{-0.076}$	$0.40547^{+0.046}_{-0.057}$	1001
t_{FGD}	$\mathbf{0.15873^{+0.02}_{-0.036}}$	$\mathbf{0.17714^{+0.017}_{-0.022}}$	7779
t_{MMD}	$0.79853^{+0.11}_{-0.16}$	$0.91959^{+0.078}_{-0.098}$	6228
t_{LLR}	-	-	-

$\mathcal{U}$-deformation and Timing

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	t^{null} (s)
t_{FGD}	$\mathbf{0.27255^{+0.039}_{-0.059}}$	$\mathbf{0.30784^{+0.029}_{-0.038}}$	7276	16484
t_{LLR}	-	-	-	-
t_{MMD}	$1.39355^{+0.19}_{-0.28}$	$1.59398^{+0.15}_{-0.18}$	7134	14531
t_{SKS}	$0.62476^{+0.091}_{-0.13}$	$0.7049^{+0.075}_{-0.097}$	935	1044
t_{SW}	$0.57515^{+0.082}_{-0.11}$	$0.6534^{+0.065}_{-0.077}$	**662**	**337**
$t_{\overline{\mathrm{KS}}}$	$0.64154^{+0.1}_{-0.15}$	$0.73314^{+0.076}_{-0.11}$	744	789