MoG model with d = 20, q = 5, and n = m = 10^5

μ-deformation / Σ_{ii}-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.03313^{+0.013}_{-0.014}$	$0.04474^{+0.012}_{-0.013}$	**2949**	$0.01198^{+0.0033}_{-0.0043}$	$0.01611^{+0.0031}_{-0.0034}$	**3129**
$t_{\overline{\mathrm{KS}}}$	$\mathbf{0.00336^{+0.00093}_{-0.0012}}$	$\mathbf{0.00457^{+0.0008}_{-0.00092}}$	3047	$\mathbf{0.00123^{+0.00035}_{-0.00047}}$	$\mathbf{0.00169^{+0.00029}_{-0.00036}}$	3163
t_{SKS}	$0.02413^{+0.0082}_{-0.0095}$	$0.03295^{+0.0076}_{-0.0081}$	3089	$0.0094^{+0.002}_{-0.0029}$	$0.01256^{+0.0017}_{-0.002}$	3211
t_{FGD}	$0.03818^{+0.018}_{-0.016}$	$0.05241^{+0.017}_{-0.014}$	5730	$0.01349^{+0.004}_{-0.0047}$	$0.01827^{+0.0034}_{-0.0035}$	5971
t_{MMD}	$0.03221^{+0.012}_{-0.011}$	$0.04404^{+0.011}_{-0.0098}$	11685	$0.00667^{+0.0033}_{-0.0027}$	$0.00928^{+0.0031}_{-0.0025}$	12637
t_{LLR}	$0.00014^{+0.0001}_{-9e-05}$	$0.00021^{+0.0001}_{-9e-05}$	9362	$5e-05^{+4e-05}_{-3e-05}$	$7e-05^{+4e-05}_{-3e-05}$	7986

$\Sigma_{i\neq j}$-deformation / pow_+-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_+}$	t (s)
t_{SW}	$0.00261^{+0.00064}_{-0.00086}$	$0.00348^{+0.00058}_{-0.00064}$	**2053**	$0.00416^{+0.0012}_{-0.0015}$	$0.00561^{+0.001}_{-0.0012}$	**3284**
$t_{\overline{\mathrm{KS}}}$	$\mathbf{0.00025^{+7e-05}_{-9e-05}}$	$\mathbf{0.00033^{+6e-05}_{-8e-05}}$	2175	$\mathbf{0.00029^{+9e-05}_{-0.00012}}$	$\mathbf{0.00041^{+9e-05}_{-0.0001}}$	3555
t_{SKS}	$0.00166^{+0.00051}_{-0.00066}$	$0.00226^{+0.00049}_{-0.00053}$	2256	$0.00306^{+0.00062}_{-0.00089}$	$0.00405^{+0.00049}_{-0.0006}$	3412
t_{FGD}	$0.00182^{+0.00045}_{-0.00059}$	$0.00249^{+0.00036}_{-0.0004}$	5216	$0.00494^{+0.0013}_{-0.0016}$	$0.00667^{+0.0011}_{-0.0011}$	5958
t_{MMD}	$0.00382^{+0.0012}_{-0.0012}$	$0.00525^{+0.0011}_{-0.001}$	11684	$0.00241^{+0.001}_{-0.00091}$	$0.00333^{+0.00094}_{-0.00082}$	13310
t_{LLR}	0.0^{+0}_{-0}	0.0^{+0}_{-0}	9174	$1e-05^{+1e-05}_{-1e-05}$	$2e-05^{+0}_{-1e-05}$	8742

pow_--deformation / $\mathcal{N}$-deformation

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_-}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{N}}$	t (s)
t_{SW}	$0.00419^{+0.0012}_{-0.0015}$	$0.00567^{+0.0011}_{-0.0012}$	**3291**	$0.16001^{+0.02}_{-0.031}$	$0.18547^{+0.016}_{-0.019}$	**2607**
$t_{\overline{\mathrm{KS}}}$	$\mathbf{0.00029^{+0.0001}_{-0.00012}}$	$\mathbf{0.00041^{+0.0001}_{-0.0001}}$	3549	$\mathbf{0.00593^{+0.0015}_{-0.0018}}$	$\mathbf{0.00757^{+0.0014}_{-0.0015}}$	3131
t_{SKS}	$0.00301^{+0.00067}_{-0.00097}$	$0.00398^{+0.00056}_{-0.00065}$	3447	$0.13104^{+0.019}_{-0.028}$	$0.15417^{+0.015}_{-0.02}$	2786
t_{FGD}	$0.00488^{+0.0013}_{-0.0016}$	$0.00669^{+0.0011}_{-0.0011}$	5693	$0.15039^{+0.017}_{-0.027}$	$0.17553^{+0.012}_{-0.015}$	4625
t_{MMD}	$0.00257^{+0.001}_{-0.00091}$	$0.00349^{+0.00096}_{-0.00081}$	13333	$0.37231^{+0.04}_{-0.061}$	$0.43454^{+0.03}_{-0.033}$	9278
t_{LLR}	$1e-05^{+1e-05}_{-1e-05}$	$2e-05^{+0}_{-1e-05}$	8857	-	-	-

$\mathcal{U}$-deformation / Timing

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{U}}$	t (s)	t^{null} (s)
t_{SW}	$0.27854^{+0.033}_{-0.055}$	$0.32293^{+0.025}_{-0.035}$	**2497**	384
$t_{\overline{\mathrm{KS}}}$	$\mathbf{0.00979^{+0.0023}_{-0.0028}}$	$\mathbf{0.01236^{+0.0019}_{-0.0023}}$	2980	**321**
t_{SKS}	$0.22648^{+0.032}_{-0.049}$	$0.26646^{+0.026}_{-0.034}$	2674	721
t_{FGD}	$0.26002^{+0.03}_{-0.046}$	$0.30348^{+0.021}_{-0.026}$	4428	5139
t_{MMD}	$0.64451^{+0.068}_{-0.094}$	$0.75224^{+0.053}_{-0.053}$	9043	16625
t_{LLR}	-	-	-	-