MoG model with $d = 20$, $q = 5$, and $n = m = 5 \cdot 10^4$

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}	$0.04957^{+0.018}_{-0.02}$	$0.06694^{+0.017}_{-0.017}$	3023	$0.01679^{+0.005}_{-0.0063}$	$0.02315^{+0.0045}_{-0.005}$	3197
$t_{\overline{\mathrm{KS}}}$	$\mathbf{0.00482^{+0.0013}_{-0.0018}}$	$\mathbf{0.00667^{+0.0011}_{-0.0013}}$	2966	$\mathbf{0.00175^{+0.00052}_{-0.00068}}$	$\mathbf{0.00248^{+0.00042}_{-0.00052}}$	3185
t_{SKS}	$0.03647^{+0.011}_{-0.014}$	$0.04821^{+0.011}_{-0.012}$	$\mathbf{2899}$	$0.01329^{+0.003}_{-0.0043}$	$0.01759^{+0.0025}_{-0.003}$	$\mathbf{3022}$
t_{FGD}	$0.05778^{+0.026}_{-0.027}$	$0.0787^{+0.023}_{-0.021}$	4047	$0.01945^{+0.0063}_{-0.0081}$	$0.02651^{+0.0053}_{-0.0056}$	4507
t_{MMD}	$0.04425^{+0.019}_{-0.018}$	$0.06215^{+0.017}_{-0.015}$	10204	$0.00923^{+0.0058}_{-0.0051}$	$0.01305^{+0.0053}_{-0.0044}$	11217
t_{LLR}	$0.00021^{+0.00013}_{-0.00014}$	$0.0003^{+0.00013}_{-0.00014}$	5911	$7e-05^{+5e-05}_{-4e-05}$	0.0001^{+5e-05}_{-4e-05}	6304

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

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon^{\mathrm{pow}_+}_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.00639^{+0.0016}_{-0.0022}$	$0.00871^{+0.0013}_{-0.0016}$	$\mathbf{5148}$	$0.00581^{+0.0017}_{-0.0022}$	$0.00798^{+0.0015}_{-0.0017}$	$\mathbf{3157}$
$t_{\overline{\mathrm{KS}}}$	$1.00146^{+0.00074}_{-0.00031}$	$1.00238^{+0.00055}_{-0.00031}$	5495	$\mathbf{0.0004^{+0.00015}_{-0.00017}}$	$\mathbf{0.00059^{+0.00013}_{-0.00014}}$	3363
t_{SKS}	$0.00531^{+0.0016}_{-0.002}$	$0.00699^{+0.0014}_{-0.0016}$	7233	$0.0043^{+0.0009}_{-0.0013}$	$0.00565^{+0.00074}_{-0.0009}$	3193
t_{FGD}	$\mathbf{0.0028^{+0.00079}_{-0.001}}$	$\mathbf{0.00388^{+0.00062}_{-0.00073}}$	8575	$0.00702^{+0.0021}_{-0.0028}$	$0.00965^{+0.0016}_{-0.0019}$	4870
t_{MMD}	$0.00605^{+0.0028}_{-0.0025}$	$0.00838^{+0.0027}_{-0.0022}$	13822	$0.00332^{+0.0018}_{-0.0017}$	$0.00467^{+0.0017}_{-0.0014}$	11801
t_{LLR}	$0.02366^{+0.0094}_{-0.01}$	$0.02983^{+0.0072}_{-0.0089}$	8958	$2e-05^{+1e-05}_{-1e-05}$	$2e-05^{+1e-05}_{-1e-05}$	6877

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

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon^{\mathrm{pow}_-}_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon^{\mathcal{N}}_{99\%\mathrm{CL}}$	t (s)
t_{SW}	$0.00604^{+0.0017}_{-0.0023}$	$0.00825^{+0.0016}_{-0.0018}$	$\mathbf{3051}$	$0.19318^{+0.025}_{-0.039}$	$0.22704^{+0.019}_{-0.026}$	$\mathbf{2403}$
$t_{\overline{\mathrm{KS}}}$	$\mathbf{0.00042^{+0.00015}_{-0.00018}}$	$\mathbf{0.00061^{+0.00013}_{-0.00015}}$	3372	$\mathbf{0.00751^{+0.002}_{-0.0024}}$	$\mathbf{0.00993^{+0.0018}_{-0.002}}$	2934
t_{SKS}	$0.00441^{+0.00092}_{-0.0014}$	$0.00574^{+0.00077}_{-0.00094}$	3324	$0.15874^{+0.023}_{-0.034}$	$0.18473^{+0.019}_{-0.023}$	2726
t_{FGD}	$0.00722^{+0.0021}_{-0.0027}$	$0.00987^{+0.0016}_{-0.0019}$	4892	$0.18095^{+0.023}_{-0.038}$	$0.21269^{+0.016}_{-0.02}$	3756
t_{MMD}	$0.00353^{+0.0016}_{-0.0015}$	$0.00494^{+0.0014}_{-0.0012}$	11418	$0.43531^{+0.066}_{-0.11}$	$0.51609^{+0.045}_{-0.054}$	8642
t_{LLR}	$2e-05^{+1e-05}_{-1e-05}$	$2e-05^{+1e-05}_{-1e-05}$	6991	-	-	-

$\mathcal{U}$-deformation / Timing

Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon^{\mathcal{U}}_{99\%\mathrm{CL}}$	t (s)	t^{null} (s)
t_{FGD}	$0.31409^{+0.04}_{-0.07}$	$0.36919^{+0.027}_{-0.036}$	3643	2795
t_{LLR}	-	-	-	-
t_{MMD}	$0.75353^{+0.12}_{-0.18}$	$0.89336^{+0.078}_{-0.098}$	7700	13860
t_{SKS}	$0.27395^{+0.041}_{-0.059}$	$0.3188^{+0.033}_{-0.04}$	2601	509
t_{SW}	$0.33394^{+0.044}_{-0.068}$	$0.39248^{+0.033}_{-0.044}$	$\mathbf{2354}$	338
$t_{\overline{\mathrm{KS}}}$	$\mathbf{0.01211^{+0.003}_{-0.0035}}$	$\mathbf{0.01575^{+0.0027}_{-0.003}}$	2835	$\mathbf{155}$