MoG model with d = 100, q = 10, and n = m = 10^5

Statistic	μ-deformation			Σ_{ii}-deformation		
	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.02814^{+0.0099}_{-0.012}$	$0.03797^{+0.009}_{-0.01}$	**950**	$0.00918^{+0.0025}_{-0.0035}$	$0.01247^{+0.0022}_{-0.0026}$	**1022**
$t_{\overline{\text{KS}}}$	$\mathbf{0.00222^{+0.00077}_{-0.00084}}$	$\mathbf{0.00307^{+0.00073}_{-0.00077}}$	1541	$\mathbf{0.00051^{+0.0002}_{-0.0002}}$	$\mathbf{0.00073^{+0.0002}_{-0.0002}}$	1689
t_{SKS}	$0.02341^{+0.0067}_{-0.0087}$	$0.03148^{+0.0061}_{-0.0069}$	1475	$0.00812^{+0.0016}_{-0.0024}$	$0.01068^{+0.0013}_{-0.0016}$	1557
t_{FGD}	$0.03878^{+0.013}_{-0.014}$	$0.05066^{+0.011}_{-0.012}$	20712	$0.01263^{+0.0031}_{-0.0038}$	$0.01631^{+0.0024}_{-0.0029}$	18446
t_{MMD}	$0.03601^{+0.0081}_{-0.01}$	$0.04577^{+0.0065}_{-0.0076}$	10677	$0.00722^{+0.0022}_{-0.0024}$	$0.00915^{+0.0019}_{-0.002}$	11691
t_{LLR}	$2e-05^{+2e-05}_{-1e-05}$	$4e-05^{+1e-05}_{-2e-05}$	24750	0.0^{+1e-05}_{-0}	$1e-05^{+0}_{-1e-05}$	34527

Statistic	$\Sigma_{i \neq j}$-deformation			pow_+-deformation		
	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.00271^{+0.00069}_{-0.00091}$	$0.00361^{+0.0006}_{-0.00061}$	**15210**	$0.00368^{+0.001}_{-0.0014}$	$0.00498^{+0.00086}_{-0.001}$	**1026**
$t_{\overline{\text{KS}}}$	$1.00061^{+0.00012}_{-0.00049}$	$1.00085^{+0.00013}_{-0.00018}$	20786	$\mathbf{0.00018^{+8e-05}_{-7e-05}}$	$\mathbf{0.00027^{+7e-05}_{-8e-05}}$	1743
t_{SKS}	$0.0021^{+0.00059}_{-0.0008}$	$0.0028^{+0.00049}_{-0.0006}$	16600	$0.00331^{+0.0006}_{-0.00092}$	$0.0043^{+0.00047}_{-0.00058}$	1594
t_{FGD}	$\mathbf{0.0016^{+0.00041}_{-0.0004}}$	$\mathbf{0.002^{+0.0003}_{-0.0003}}$	70077	$0.00505^{+0.0012}_{-0.0016}$	$0.00652^{+0.00098}_{-0.0012}$	19149
t_{MMD}	$0.004^{+0.00099}_{-0.0012}$	$0.00499^{+0.001}_{-0.00089}$	36138	$0.00263^{+0.00077}_{-0.00088}$	$0.0033^{+0.0007}_{-0.00071}$	12093
t_{LLR}	$0.01134^{+0.0043}_{-0.0039}$	$0.01444^{+0.003}_{-0.0046}$	54581	0.0^{+0}_{-0}	0.0^{+0}_{-0}	30414

Statistic	pow_--deformation			$\mathcal{N}$-deformation		
	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.00374^{+5}_{-0.0014}$	$0.00505^{+5}_{-0.0011}$	**935**	$0.17253^{+0.022}_{-0.036}$	$0.20139^{+0.016}_{-0.021}$	**838**
$t_{\overline{\text{KS}}}$	$\mathbf{0.00018^{+8e-05}_{-7e-05}}$	$\mathbf{0.00027^{+8e-05}_{-8e-05}}$	1753	$\mathbf{0.00606^{+0.0029}_{-0.0031}}$	$\mathbf{0.00921^{+0.0027}_{-0.003}}$	1589
t_{SKS}	$0.00331^{+0.00064}_{-0.00098}$	$0.0043^{+0.00051}_{-0.00063}$	1605	$0.14876^{+0.02}_{-0.031}$	$0.17443^{+0.016}_{-0.021}$	1363
t_{FGD}	$0.00504^{+0.0012}_{-0.0016}$	$0.00655^{+0.001}_{-0.0012}$	19105	$0.15458^{+0.018}_{-0.027}$	$0.17576^{+0.014}_{-0.016}$	15222
t_{MMD}	$0.00257^{+0.00071}_{-0.0008}$	$0.00329^{+0.00064}_{-0.00066}$	12099	$0.67808^{+0.07}_{-0.11}$	$0.7615^{+0.053}_{-0.069}$	8142
t_{LLR}	0.0^{+0}_{-0}	0.0^{+0}_{-0}	39144	-	-	-

Statistic	$\mathcal{U}$-deformation			Timing
	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	t^{null} (s)
t_{SW}	$0.2996^{+0.036}_{-0.063}$	$0.34972^{+0.028}_{-0.038}$	**665**	**476**
$t_{\overline{\text{KS}}}$	$\mathbf{0.00925^{+0.0047}_{-0.005}}$	$\mathbf{0.01423^{+0.0043}_{-0.0048}}$	1590	1594
t_{SKS}	$0.25702^{+0.037}_{-0.054}$	$0.30137^{+0.028}_{-0.036}$	1316	1753
t_{FGD}	$0.26668^{+0.031}_{-0.044}$	$0.3051^{+0.022}_{-0.03}$	12103	39629
t_{MMD}	$1.17598^{+0.12}_{-0.19}$	$1.32064^{+0.093}_{-0.12}$	9105	18930
t_{LLR}	-	-	-	-