MoG model with d = 100, q = 10, and n = m = $5 \cdot 10^4$

	μ-deformation			Σ_{ii}-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.03998^{+0.011}_{-0.013}$	$0.05217^{+0.01}_{-0.012}$	**836**	$0.01323^{+0.0032}_{-0.0041}$	$0.01718^{+0.0028}_{-0.0032}$	**907**
$t_{\overline{\text{KS}}}$	$\mathbf{0.00299^{+0.001}_{-0.0011}}$	$\mathbf{0.00425^{+0.001}_{-0.001}}$	915	$\mathbf{0.00071^{+0.00029}_{-0.00028}}$	$\mathbf{0.00105^{+0.00031}_{-0.00029}}$	1002
t_{SKS}	$0.0331^{+0.0083}_{-0.0097}$	$0.04324^{+0.0076}_{-0.0082}$	1012	$0.01187^{+0.002}_{-0.0028}$	$0.0151^{+0.0016}_{-0.002}$	1099
t_{FGD}	$0.05672^{+0.017}_{-0.018}$	$0.07296^{+0.015}_{-0.015}$	10126	$0.01849^{+0.0042}_{-0.0051}$	$0.0235^{+0.0033}_{-0.0039}$	8804
t_{MMD}	$0.05034^{+0.011}_{-0.013}$	$0.06423^{+0.0092}_{-0.01}$	9640	$0.0101^{+0.0028}_{-0.003}$	$0.01277^{+0.0026}_{-0.0026}$	9030
t_{LLR}	$4e-05^{+2e-05}_{-3e-05}$	$5e-05^{+3e-05}_{-2e-05}$	12683	$1e-05^{+0}_{-1e-05}$	$1e-05^{+1e-05}_{-0}$	13707
	$\Sigma_{i\neq j}$-deformation			pow_+-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.0243^{+0.0056}_{-0.0075}$	$0.0317^{+0.0046}_{-0.0055}$	**3349**	$0.00526^{+0.0013}_{-0.0016}$	$0.00684^{+0.0011}_{-0.0013}$	**921**
$t_{\overline{\text{KS}}}$	$1.00061^{+0.00085}_{-0.00037}$	$1.00125^{+0.00021}_{-0.00027}$	9029	$\mathbf{0.00026^{+0.00011}_{-0.00011}}$	$\mathbf{0.00039^{+0.00013}_{-0.00012}}$	1081
t_{SKS}	$0.02643^{+0.0064}_{-0.0078}$	$0.03469^{+0.0055}_{-0.0064}$	3678	$0.00478^{+0.00081}_{-0.0011}$	$0.00605^{+0.00062}_{-0.00075}$	1123
t_{FGD}	$\mathbf{0.00431^{+0.00099}_{-0.0011}}$	$\mathbf{0.00562^{+0.00081}_{-0.0009}}$	14614	$0.00731^{+0.0016}_{-0.0019}$	$0.00933^{+0.0013}_{-0.0015}$	9507
t_{MMD}	$0.01779^{+0.0044}_{-0.0048}$	$0.02268^{+0.0042}_{-0.004}$	12678	$0.00365^{+0.001}_{-0.0011}$	$0.00462^{+0.00093}_{-0.00092}$	9688
t_{LLR}	-	-	-	0.0^{+0}_{-0}	0.0^{+1e-05}_{-0}	16259
	pow_--deformation			$\mathcal{N}$-deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)
t_{SW}	$0.00536^{+5}_{-0.0016}$	$0.00698^{+5}_{-0.0013}$	**717**	$0.20881^{+0.023}_{-0.035}$	$0.2389^{+0.017}_{-0.023}$	**634**
$t_{\overline{\text{KS}}}$	$\mathbf{0.00026^{+0.00011}_{-0.00011}}$	$\mathbf{0.00039^{+0.00013}_{-0.00011}}$	1096	$\mathbf{0.0089^{+0.0037}_{-0.0043}}$	$\mathbf{0.01341^{+0.0034}_{-0.0038}}$	969
t_{SKS}	$0.0047^{+0.00077}_{-0.0011}$	$0.00595^{+0.00061}_{-0.0007}$	1128	$0.18004^{+0.021}_{-0.031}$	$0.20733^{+0.018}_{-0.023}$	942
t_{FGD}	$0.00731^{+0.0016}_{-0.002}$	$0.00937^{+0.0014}_{-0.0015}$	9183	$0.18738^{+0.021}_{-0.029}$	$0.21173^{+0.016}_{-0.017}$	7138
t_{MMD}	$0.00367^{+0.00095}_{-0.001}$	$0.00469^{+0.00086}_{-0.00084}$	9701	$0.80488^{+0.074}_{-0.11}$	$0.90321^{+0.055}_{-0.068}$	6223
t_{LLR}	0.0^{+0}_{-0}	0.0^{+1e-05}_{-0}	15658	-	-	-
	$\mathcal{U}$-deformation			Timing		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	t^{null} (s)		
t_{FGD}	$0.32329^{+0.035}_{-0.048}$	$0.36745^{+0.025}_{-0.033}$	6909	13787		
t_{LLR}	-	-	-	-		
t_{MMD}	$1.39527^{+0.12}_{-0.19}$	$1.56573^{+0.096}_{-0.12}$	6920	14553		
t_{SKS}	$0.31042^{+0.037}_{-0.056}$	$0.35749^{+0.03}_{-0.038}$	929	903		
t_{SW}	$0.36179^{+0.04}_{-0.06}$	$0.41391^{+0.029}_{-0.04}$	**622**	**381**		
$t_{\overline{\text{KS}}}$	$\mathbf{0.01367^{+0.0059}_{-0.0069}}$	$\mathbf{0.02063^{+0.0056}_{-0.0059}}$	953	731		