

Scaled Particle features with $n = m = 10^4$

Statistic	μ -deformation			Σ_{ii} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{SW}	$0.03001^{+0.0061}_{-0.012}$	$0.03983^{+0.0059}_{-0.0068}$	636	$0.03556^{+0.013}_{-0.014}$	$0.04838^{+0.01}_{-0.012}$	663
$t_{\overline{KS}}$	$0.01913^{+0.0053}_{-0.0097}$	$0.02873^{+0.0044}_{-0.0066}$	772	$0.04819^{+0.016}_{-0.026}$	$0.06797^{+0.015}_{-0.016}$	871
t_{SKS}	$0.02745^{+0.0048}_{-0.011}$	$0.03644^{+0.0054}_{-0.0062}$	1583	$0.04382^{+0.021}_{-0.014}$	$0.0658^{+0.01}_{-0.016}$	1772
t_{FGD}	$0.03709^{+0.0078}_{-0.013}$	$0.04616^{+0.0054}_{-0.0098}$	2093	$0.03145^{+0.0096}_{-0.013}$	$0.0415^{+0.013}_{-0.0099}$	2163
t_{MMD}	$0.03985^{+0.0061}_{-0.016}$	$0.04959^{+0.0059}_{-0.008}$	1591	$0.03486^{+0.015}_{-0.014}$	$0.04702^{+0.0095}_{-0.011}$	2055
Statistic	$\Sigma_{i \neq j}$ -deformation			pow ₊ -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}^{pow+}$	t (s)
t_{SW}	$0.03068^{+0.01}_{-0.012}$	$0.04073^{+0.006}_{-0.007}$	1080	$0.04091^{+0.016}_{-0.016}$	$0.0543^{+0.008}_{-0.013}$	539
$t_{\overline{KS}}$	$1.03125^{+0.014}_{-0.011}$	$1.05323^{+0.0083}_{-0.016}$	811	$0.03145^{+0.0096}_{-0.017}$	$0.04437^{+0.01}_{-0.01}$	1171
t_{SKS}	$0.02805^{+0.013}_{-0.0086}$	$0.04288^{+0.012}_{-0.0073}$	2346	$0.06612^{+0.024}_{-0.023}$	$0.09525^{+0.013}_{-0.016}$	2062
t_{FGD}	$0.0032^{+0.00083}_{-0.0011}$	$0.00399^{+0.00089}_{-0.0006}$	3890	$0.03323^{+0.015}_{-0.014}$	$0.04254^{+0.012}_{-0.01}$	2277
t_{MMD}	$0.02011^{+0.011}_{-0.0077}$	$0.02741^{+0.0094}_{-0.0084}$	2312	$0.04071^{+0.016}_{-0.016}$	$0.0537^{+0.017}_{-0.013}$	2231
Statistic	pow ₋ -deformation			\mathcal{N} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}^{pow-}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}^{\mathcal{N}}$	t (s)
t_{SW}	$0.04382^{+0.021}_{-0.017}$	$0.0618^{+0.014}_{-0.018}$	689	$0.16911^{+0.026}_{-0.035}$	$0.18687^{+0.03}_{-0.02}$	397
$t_{\overline{KS}}$	$0.03145^{+0.0096}_{-0.018}$	$0.0415^{+0.013}_{-0.0096}$	1316	$0.11951^{+0.025}_{-0.034}$	$0.14874^{+0.018}_{-0.02}$	1196
t_{SKS}	$0.07149^{+0.026}_{-0.026}$	$0.10084^{+0.023}_{-0.017}$	2143	$0.15558^{+0.04}_{-0.029}$	$0.19363^{+0.023}_{-0.025}$	1868
t_{FGD}	$0.03556^{+0.013}_{-0.012}$	$0.04553^{+0.013}_{-0.013}$	2220	$0.07893^{+0.011}_{-0.015}$	$0.0886^{+0.012}_{-0.0093}$	1870
t_{MMD}	$0.04497^{+0.023}_{-0.018}$	$0.05933^{+0.018}_{-0.014}$	2247	$0.41065^{+0.042}_{-0.05}$	$0.47533^{+0.05}_{-0.043}$	1844
Statistic	\mathcal{U} -deformation			Timing		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}^{\mathcal{U}}$	t (s)	t^{null} (s)		
t_{SW}	$0.28696^{+0.041}_{-0.059}$	$0.31709^{+0.05}_{-0.033}$	373	139		
$t_{\overline{KS}}$	$0.1977^{+0.029}_{-0.055}$	$0.24605^{+0.029}_{-0.032}$	1238	173		
t_{SKS}	$0.28696^{+0.041}_{-0.066}$	$0.33718^{+0.03}_{-0.043}$	1817	402		
t_{FGD}	$0.13593^{+0.016}_{-0.025}$	$0.15378^{+0.02}_{-0.016}$	1874	651		
t_{MMD}	$0.69962^{+0.082}_{-0.086}$	$0.8098^{+0.086}_{-0.074}$	1768	368		
t_{LLR}	-	-	-	-		