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

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}	$0.05604^{+0.02}_{-0.027}$	$0.08216^{+0.02}_{-0.018}$	**666**	$0.06258^{+0.019}_{-0.031}$	$0.08827^{+0.02}_{-0.023}$	**665**
$t_{\overline{\text{KS}}}$	$\mathbf{0.01913^{+0.0053}_{-0.0097}}$	$\mathbf{0.02873^{+0.0044}_{-0.0066}}$	780	$\mathbf{0.04819^{+0.016}_{-0.026}}$	$\mathbf{0.06797^{+0.015}_{-0.016}}$	901
t_{SKS}	$0.0359^{+0.009}_{-0.015}$	$0.05064^{+0.011}_{-0.0091}$	1700	$0.05551^{+0.017}_{-0.017}$	$0.07997^{+0.011}_{-0.023}$	1814
t_{FGD}	$0.10082^{+0.028}_{-0.047}$	$0.14525^{+0.02}_{-0.026}$	2099	$0.08325^{+0.038}_{-0.038}$	$0.1248^{+0.037}_{-0.032}$	2281
t_{MMD}	$0.35978^{+0.16}_{-0.21}$	$0.42433^{+0.21}_{-0.077}$	1667	$0.14414^{+0.14}_{-0.074}$	$0.19209^{+0.11}_{-0.064}$	1976

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

Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\text{pow}_+}_{99\%\text{CL}}$	t (s)
t_{SW}	$0.10263^{+0.034}_{-0.049}$	$0.15046^{+0.037}_{-0.027}$	610	$0.0551^{+0.027}_{-0.026}$	$0.08079^{+0.02}_{-0.024}$	**646**
$t_{\overline{\text{KS}}}$	$1.03125^{+0.014}_{-0.011}$	$1.05323^{+0.0083}_{-0.016}$	**514**	$\mathbf{0.03145^{+0.0096}_{-0.017}}$	$\mathbf{0.04437^{+0.01}_{-0.01}}$	1173
t_{SKS}	$0.10355^{+0.018}_{-0.046}$	$0.13745^{+0.02}_{-0.035}$	1561	$0.07643^{+0.045}_{-0.029}$	$0.1222^{+0.036}_{-0.035}$	2054
t_{FGD}	$\mathbf{0.06692^{+0.015}_{-0.03}}$	$\mathbf{0.10049^{+0.015}_{-0.018}}$	2573	$0.04829^{+0.037}_{-0.023}$	$0.07078^{+0.029}_{-0.024}$	2509
t_{MMD}	$0.56517^{+0.19}_{-0.27}$	$0.81424^{+0.11}_{-0.14}$	1538	$0.04086^{+1.9}_{-0.02}$	$0.0578^{+1.9}_{-0.024}$	2221

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

Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\text{pow}_-}_{99\%\text{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\mathcal{N}}_{99\%\text{CL}}$	t (s)
t_{SW}	$0.06258^{+0.019}_{-0.033}$	$0.08256^{+0.026}_{-0.018}$	**562**	$0.15131^{+0.044}_{-0.041}$	$0.20084^{+0.03}_{-0.04}$	**484**
$t_{\overline{\text{KS}}}$	$\mathbf{0.03145^{+0.0096}_{-0.018}}$	$\mathbf{0.0415^{+0.013}_{-0.0096}}$	1304	$\mathbf{0.11951^{+0.025}_{-0.034}}$	$\mathbf{0.14874^{+0.018}_{-0.02}}$	1189
t_{SKS}	$0.08005^{+0.025}_{-0.03}$	$0.1025^{+0.029}_{-0.03}$	2153	$0.1299^{+0.015}_{-0.03}$	$0.15264^{+0.014}_{-0.02}$	1923
t_{FGD}	$0.04585^{+0.045}_{-0.016}$	$0.08288^{+0.042}_{-0.033}$	2697	$0.22562^{+0.048}_{-0.06}$	$0.27252^{+0.041}_{-0.033}$	2163
t_{MMD}	$0.05178^{+0.032}_{-0.029}$	$0.06297^{+0.044}_{-0.014}$	2784	$0.47936^{+0.19}_{-0.14}$	$0.55252^{+0.16}_{-0.093}$	2867

$\mathcal{U}$-deformation / Timing

Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon^{\mathcal{U}}_{99\%\text{CL}}$	t (s)	t^{null} (s)
t_{SW}	$0.28278^{+0.045}_{-0.09}$	$0.35194^{+0.041}_{-0.07}$	**446**	**145**
$t_{\overline{\text{KS}}}$	$\mathbf{0.1977^{+0.029}_{-0.055}}$	$\mathbf{0.24605^{+0.029}_{-0.032}}$	1225	179
t_{SKS}	$0.21465^{+0.043}_{-0.039}$	$0.26715^{+0.032}_{-0.034}$	1874	416
t_{FGD}	$0.38649^{+0.067}_{-0.1}$	$0.47155^{+0.066}_{-0.058}$	2050	627
t_{MMD}	$0.79199^{+0.31}_{-0.19}$	$0.97349^{+0.23}_{-0.19}$	2427	381