

Particle features with $n = m = 2 \cdot 10^4$						
Statistic	μ -deformation			Σ_{ii} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{SW}	$0.03755^{+0.019}_{-0.018}$	$0.06003^{+0.017}_{-0.019}$	1152	$0.04347^{+0.017}_{-0.019}$	$0.06373^{+0.016}_{-0.016}$	1126
$t_{\overline{KS}}$	$0.00993^{+0.0052}_{-0.0078}$	$0.01668^{+0.0052}_{-0.0032}$	1777	$0.02465^{+0.016}_{-0.019}$	$0.03767^{+0.017}_{-0.0092}$	2402
t_{SKS}	$0.02531^{+0.0089}_{-0.01}$	$0.03801^{+0.0058}_{-0.0072}$	3266	$0.04334^{+0.0094}_{-0.017}$	$0.05753^{+0.0085}_{-0.014}$	3575
t_{FGD}	$0.07038^{+0.025}_{-0.031}$	$0.10569^{+0.016}_{-0.021}$	5425	$0.06198^{+0.033}_{-0.024}$	$0.08926^{+0.024}_{-0.024}$	5291
t_{MMD}	$0.21075^{+0.19}_{-0.096}$	$0.31926^{+0.12}_{-0.11}$	3912	$0.11714^{+0.072}_{-0.054}$	$0.15051^{+0.064}_{-0.057}$	4844
t_{NPLM}	$0.01752^{+0.0046}_{-0.0063}$	$0.01926^{+0.0042}_{-0.0049}$	46624	$0.03601^{+0.0095}_{-0.013}$	$0.03966^{+0.0075}_{-0.01}$	42492
Statistic	$\Sigma_{i \neq j}$ -deformation			pow ₊ -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{SW}	$0.07169^{+0.026}_{-0.028}$	$0.11253^{+0.019}_{-0.021}$	2519	$0.04032^{+0.016}_{-0.017}$	$0.05911^{+0.015}_{-0.017}$	1172
$t_{\overline{KS}}$	$1.03785^{+0.009}_{-0.024}$	$1.04608^{+0.0082}_{-0.016}$	3547	$0.01587^{+0.0085}_{-0.013}$	$0.02425^{+0.011}_{-0.0046}$	3776
t_{SKS}	$0.06763^{+0.03}_{-0.026}$	$0.09915^{+0.025}_{-0.025}$	8887	$0.05979^{+0.03}_{-0.024}$	$0.08436^{+0.032}_{-0.021}$	4543
t_{FGD}	$0.04432^{+0.01}_{-0.013}$	$0.06957^{+0.011}_{-0.012}$	9665	$0.03326^{+0.03}_{-0.014}$	$0.04854^{+0.028}_{-0.012}$	5966
t_{MMD}	$0.41314^{+0.1}_{-0.12}$	$0.59522^{+0.083}_{-0.13}$	33606	$0.03172^{+1.9}_{-0.016}$	$0.03834^{+1.9}_{-0.01}$	5648
t_{NPLM}	$0.14055^{+0.028}_{-0.034}$	$0.15798^{+0.021}_{-0.027}$	34371	$0.04578^{+0.013}_{-0.016}$	$0.05113^{+0.012}_{-0.012}$	35859
Statistic	pow ₋ -deformation			\mathcal{N} -deformation		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)
t_{SW}	$0.04099^{+0.02}_{-0.02}$	$0.05783^{+0.022}_{-0.013}$	1141	$0.1312^{+0.033}_{-0.036}$	$0.17415^{+0.026}_{-0.035}$	960
$t_{\overline{KS}}$	$0.01675^{+0.0096}_{-0.013}$	$0.0256^{+0.011}_{-0.0076}$	4437	$0.09466^{+0.019}_{-0.023}$	$0.10855^{+0.023}_{-0.021}$	3808
t_{SKS}	$0.05825^{+0.024}_{-0.028}$	$0.07685^{+0.024}_{-0.022}$	5427	$0.10894^{+0.012}_{-0.02}$	$0.13563^{+0.0038}_{-0.017}$	5278
t_{FGD}	$0.03691^{+0.028}_{-0.019}$	$0.05501^{+0.026}_{-0.017}$	5290	$0.1818^{+0.04}_{-0.037}$	$0.22626^{+0.027}_{-0.036}$	4748
t_{MMD}	$0.03173^{+0.029}_{-0.015}$	$0.04728^{+0.023}_{-0.018}$	6602	$0.38994^{+0.15}_{-0.071}$	$0.49845^{+0.096}_{-0.12}$	6103
t_{NPLM}	$0.03843^{+0.011}_{-0.015}$	$0.04311^{+0.0099}_{-0.01}$	32439	$0.04849^{+0.0079}_{-0.0091}$	$0.05207^{+0.0073}_{-0.0077}$	17368
Statistic	\mathcal{U} -deformation			Timing		
	$\epsilon_{95\%CL}$	$\epsilon_{99\%CL}$	t (s)	t^{null} (s)		
t_{SW}	$0.2237^{+0.05}_{-0.029}$	$0.29694^{+0.044}_{-0.038}$	876	303		
$t_{\overline{KS}}$	$0.1547^{+0.025}_{-0.043}$	$0.19254^{+0.023}_{-0.046}$	4086	386		
t_{SKS}	$0.19209^{+0.019}_{-0.044}$	$0.22571^{+0.02}_{-0.0097}$	5294	958		
t_{FGD}	$0.31601^{+0.067}_{-0.064}$	$0.3933^{+0.046}_{-0.062}$	4219	1462		
t_{MMD}	$0.73168^{+0.25}_{-0.19}$	$0.85127^{+0.23}_{-0.21}$	6154	943		
t_{NPLM}	$0.08472^{+0.011}_{-0.017}$	$0.08963^{+0.01}_{-0.013}$	28899	5825		