Scaled Particle features with $n=m=5\cdot 10^4$							
	$\mu$ -deformation			$\Sigma_{ii}$ -deformation			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\mid \epsilon_{95\%{ m CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	
$t_{ m SW}$	$0.01334^{+0.0038}_{-0.0046}$	$0.01815^{+0.0037}_{-0.0029}$	1116	$0.0166^{+0.0059}_{-0.0063}$	$0.02125^{+0.006}_{-0.0034}$	1079	
$t_{\overline{ ext{KS}}}$	$0.0^{+0.0045}_{-0}$	$0.00771^{+0.0022}_{-0.0049}$	58835	$0.0^{+0.013}_{-0}$	$0.01904^{+0.0086}_{-0.011}$	62555	
$t_{ m SKS}$	$0.01275^{+0.0034}_{-0.0042}$	$0.01734^{+0.0036}_{-0.0038}$	18356	$0.02131^{+0.007}_{-0.0072}$	$0.02899^{+0.006}_{-0.0047}$	26542	
$t_{ m FGD}$	$0.01627^{+0.003}_{-0.006}$	$0.02025^{+0.0024}_{-0.0047}$	39057	$0.01469^{+0.0034}_{-0.0057}$	$0.01805^{+0.0043}_{-0.0051}$	27175	
$t_{ m MMD}$	$0.01613^{+0.0049}_{-0.0058}$	$0.02141^{+0.0032}_{-0.0035}$	22841	$0.01606^{+0.0074}_{-0.0066}$	$0.02089^{+0.0055}_{-0.0061}$	33730	
$t_{ m NPLM}$	$0.00152^{+0.00041}_{-0.00068}$	$0.00167^{+0.00045}_{-0.00046}$	64992	$0.00426^{+0.0014}_{-0.0017}$	+ + 0 00092	27852	
$t_{ m NPLM}$	1 10 00046	$0.00182^{+0.00033}_{-0.00038}$	45154	0.00769 + 0.0025	$0.00020 \pm 0.0022$	38293	
$t_{ m NPLM}$	$\begin{array}{c} 0.00147^{+0.00046}_{-0.00056} \\ 0.00167^{+0.00053}_{-0.0007} \end{array}$	$0.002^{+0.0004}_{-0.00051}$	121700	$0.00702_{-0.0025} \\ 0.00349_{-0.0016}^{+0.0013}$	$0.00939^{+0.002}_{-0.0012}$ $0.00429^{+0.00099}_{-0.0012}$	120179	
$\Sigma_{i \neq j}$ -deformation				pow <sub>+</sub> -deformation			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	
$t_{ m SW}$	$0.03128^{+0.0068}_{-0.011}$	$0.04152^{+0.0061}_{-0.0067}$	1424	$0.01894^{+0.0055}_{-0.0072}$	$0.02425^{+0.0068}_{-0.0039}$	1006	
$t_{\overline{ ext{KS}}}$	$0.99134^{+0.016}_{-0.0078}$	$1.01532^{+0.008}_{-0.004}$	11987	$0.0^{+0.0066}_{-0}$	$0.01141^{+0.0073}_{-0.011}$	49091	
$t_{ m SKS}$	$0.03809^{+0.011}_{-0.013}$	$0.0515^{+0.011}_{-0.0083}$	27313	$0.03552^{+0.0055}_{-0.013}$	$0.04366^{+0.011}_{-0.0066}$	15487	
$t_{ m FGD}$	$0.0026^{+0.00076}_{-0.00089}$	$0.00345^{+0.00052}_{-0.00076}$	33338	$0.01534^{+0.0052}_{-0.0062}$	$0.01886^{+0.0045}_{-0.0055}$	24241	
$t_{ m MMD}$	$0.01919^{+0.011}_{-0.0070}$	$0.02614^{+0.0089}_{-0.0065}$	20604	$0.01896^{+0.0074}_{-0.008}$	$0.02428^{+0.0068}_{-0.0071}$	27198	
$t_{ m NPLM}$	$0.00906^{+0.0021}_{-0.0025}$	0.04040±0.0019	54091	$0.01792^{+0.0064}_{-0.0086}$	$0.02055^{+0.0056}_{-0.0056}$	37834	
$t_{ m NPLM}$	$0.01213^{+0.0038}_{-0.0045}$	$0.01018_{-0.0023}^{+0.0023}$ $0.01536_{-0.0033}^{+0.0024}$	36876	$0.01956^{+0.0048}_{-0.0088}$	$0.02471^{+0.005}_{-0.0069}$	35571	
$t_{ m NPLM}$	$0.00326^{+0.0014}_{-0.0015}$	$0.00404^{+0.0014}_{-0.0011}$	117906	$0.01074^{+0.0053}_{-0.0061}$	$0.01474^{+0.005}_{-0.005}$	116436	
	powdeformation				$\mathcal{N}$ -deformation		
Statistic	$ \epsilon_{95\%{ m CL}} $	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	
$t_{ m SW}$	$0.01909^{+0.0073}_{-0.0077}$	$0.02693^{+0.0061}_{-0.0068}$	1006	$0.10868^{+0.02}_{-0.017}$	$0.1277^{+0.011}_{-0.022}$	886	
$t_{\overline{ ext{KS}}}$	$0.0^{+0.0095}_{-0}$	$0.01323^{+0.0069}_{-0.0085}$	45323	$0.0656^{+0.016}_{-0.049}$	$0.08707_{-0.019}^{+0.013}$	22186	
$t_{ m SKS}$	$0.0356^{+0.0093}_{-0.013}$	$0.04726^{+0.007}_{-0.011}$	22261	$0.10733^{+0.022}_{-0.017}$	$0.13357^{+0.016}_{-0.026}$	24344	
$t_{ m FGD}$	$0.01543^{+0.007}_{-0.0065}$	$0.01852^{+0.0068}_{-0.0042}$	24968	$0.04853^{+0.0071}_{-0.0075}$	$0.05702^{+0.0051}_{-0.006}$	24273	
$t_{ m MMD}$	$0.01859^{+0.0085}_{-0.0081}$	$0.02501^{+0.0083}_{-0.0064}$	27960	$0.26953^{+0.035}_{-0.052}$	$0.30333^{+0.029}_{-0.011}$	19782	
$t_{ m NPLM}$	$0.03192^{+0.0075}_{-0.0064}$	$0.03387^{+0.0064}_{-0.007}$	29245	$0.08993^{+0.012}_{-0.016}$	$0.098^{+0.0071}_{-0.012}$	27364	
$t_{ m NPLM}$	10.0000	$0.03765^{+0.0051}_{-0.0066}$	33567	+0.015	$0.11287^{+0.0091}_{-0.015}$	30105	
$t_{ m NPLM}$	$\begin{array}{c} 0.03218^{+0.0063}_{-0.0089} \\ 0.05573^{+0.0051}_{-0.0076} \end{array}$	$0.05897^{+0.0062}_{-0.0053}$	86377	$\begin{array}{c} 0.09864^{+0.013}_{-0.023} \\ 0.04549^{+0.0075}_{-0.012} \end{array}$	$0.05088^{+0.0065}_{-0.0085}$	91294	
	$\mathcal{U} ext{-} ext{deformation}$				Timing		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$t^{\text{null}}$ (s)	-		
$t_{\rm SW}$	$0.19116^{+0.035}_{-0.03}$	$0.22462^{+0.02}_{-0.039}$	774	133			
$t_{\overline{ ext{KS}}}$	$0.10693^{+0.022}_{-0.086}$	$0.14193^{+0.021}_{-0.019}$	10646	1972			
$t_{ m SKS}$	$0.19116^{+0.035}_{-0.03}$	$0.22462^{+0.02}_{-0.039}$	16154	4379			
$t_{ m FGD}$	$0.08969^{+0.006}_{-0.016}$	$0.10215^{+0.0042}_{-0.016}$	21825	6689			
$t_{ m MMD}$	$0.48398^{+0.032}_{-0.088}$	$0.5512^{+0.022}_{-0.058}$	14676	3605			
$t_{ m NPLM}$	$0.15699^{+0.019}_{-0.034}$	$0.1632^{+0.02}$	27308	4569			
$t_{ m NPLM}$	$\begin{array}{c} 0.16951^{+0.027}_{-0.038} \\ 0.07922^{+0.015}_{-0.021} \end{array}$	$\begin{array}{c} 0.19396^{+0.016}_{-0.027} \\ 0.08772^{+0.01}_{-0.015} \end{array}$	29804	7280			
$t_{ m NPLM}$	L ±0.015	1.0.01	88713	18775			