	Scal	ed Particle feat	ures wi	$ ext{th } ext{n} = ext{m} = 2 \cdot 10$	$)^4$		
	μ -deformation			Σ_{ii} -deformation			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	
$t_{ m SW}$	$0.02051^{+0.0059}_{-0.0073}$	$0.02921^{+0.0058}_{-0.003}$	1482	$0.02531^{+0.0089}_{-0.01}$	$0.03339^{+0.01}_{-0.0057}$	1030	
$t_{\overline{ ext{KS}}}$	$0.00993^{+0.0052}_{-0.0079}$	$0.01668^{+0.0052}_{-0.0032}$	1875	$0.02465^{+0.016}_{-0.010}$	$0.03767^{+0.017}_{-0.0002}$	2464	
$t_{ m SKS}$	$0.01919^{+0.0052}_{-0.0065}$		3630	$\begin{array}{c} 0.03319 ^{+0.0078}_{-0.013} \\ 0.02305 ^{+0.0077}_{-0.0093} \end{array}$	$0.04406^{+0.0065}_{-0.014}$ $0.02833^{+0.0068}_{-0.0078}$	4096	
$t_{ m FGD}$	$0.02609^{+0.0054}_{-0.011}$	$0.02798^{+0.0013}_{-0.0067}$ $0.03056^{+0.0057}_{-0.0049}$	4986	$0.02305_{-0.0093}^{+0.0077}$	$0.02833_{-0.0078}^{+0.0068}$	6023	
$t_{ m MMD}$	$\begin{array}{c} -0.0078 \\ 0.01919^{+0.0052}_{-0.0065} \\ 0.02609^{+0.0054}_{-0.011} \\ 0.028^{+0.0042}_{-0.011} \end{array}$	$0.03056_{-0.0049}^{+0.0049}$ $0.03484_{-0.0056}^{+0.0041}$	3875	$0.02671^{+0.011}_{-0.011}$	$0.03206^{+0.012}_{-0.0088}$	4796	
$\Sigma_{i\neq j}$ -deformation				pow_+ -deformation			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{+}}$	t (s)	
$t_{ m SW}$	$0.05216^{+0.0084}_{-0.021}$	$0.06924^{+0.01}_{-0.012}$	2288	$0.03068^{+0.01}_{-0.014}$	$0.03771^{+0.009}_{-0.0064}$	968	
$t_{\overline{ ext{KS}}}$	$1.03785^{+0.009}_{-0.024}$	$1.04608^{+0.0082}_{-0.016}$	2734	$0.01587^{+0.0085}_{-0.013}$	$0.02425^{+0.011}_{-0.0046}$	3768	
$t_{ m SKS}$	$0.06232^{+0.014}_{-0.028}$	$0.0766^{+0.018}_{-0.0070}$	7333	$0.04819^{+0.016}_{-0.017}$	$0.06357^{+0.02}_{-0.01}$	5176	
$t_{ m FGD}$	$0.00395^{+0.0012}_{-0.0014}$	$0.00521^{+0.0016}_{-0.0012}$	10771	$0.0243^{+0.0079}_{-0.0098}$	$0.02987^{+0.0072}_{-0.0082}$	4923	
$t_{ m MMD}$	$0.03602^{+0.013}_{-0.015}$	$0.00521^{+0.0016}_{-0.0012} \\ 0.04256^{+0.014}_{-0.012}$	41440	$\begin{array}{c} 0.0243^{+0.0079}_{-0.0098} \\ 0.03037^{+0.011}_{-0.012} \end{array}$	$\begin{array}{c} 0.02987^{+0.0072}_{-0.0082} \\ 0.03734^{+0.0089}_{-0.011} \end{array}$	5925	
$pow\deformation$			$\mathcal{N} ext{-deformation}$				
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{-}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{N}}$	t (s)	
$t_{ m SW}$	$0.03574^{+0.0092}_{-0.016}$	$0.04394^{+0.011}_{-0.011} \\ 0.0256^{+0.011}_{-0.0076}$	973	$ \begin{array}{c} 0.13338^{+0.031}_{-0.023} \\ 0.09466^{+0.019}_{-0.023} \end{array} $	$0.15296^{+0.033}_{-0.0054}$	787	
$t_{\overline{ ext{KS}}}$	$0.01675^{+0.0096}_{-0.013}$	$0.0256^{+0.011}_{-0.0076}$	4374	$0.09466^{+0.019}_{-0.023}$	$0.10855^{+0.023}_{-0.021}$	3825	
$t_{ m SKS}$	$0.05724^{+0.011}_{-0.025}$	$0.07036^{+0.017}_{-0.0072}$	5169	$0.13338^{+0.031}_{-0.023}$	$0.15296^{+0.033}_{-0.016}$	4479	
$t_{ m FGD}$	$0.02527^{+0.0089}_{-0.011}$	$0.03169^{+0.0083}_{-0.0076}$	4913	$0.06571^{+0.0056}_{-0.012}$	$0.07484_{-0.011}^{+0.003}$	4537	
$t_{ m MMD}$	$0.03366^{+0.011}_{-0.015}$	$0.04192^{+0.011}_{-0.01}$	6008	$0.35498^{+0.028}_{-0.049}$	$0.40428^{+0.016}_{-0.043}$	4996	
$\mathcal{U} ext{-deformation}$					Timing		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{U}}$	t (s)	t^{null} (s)			
$t_{ m FGD}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0.11995^{+0.016}_{-0.004}$	4174	1336			
$t_{ m LLR}$	-	-	-	-			
$t_{ m MMD}$	$0.61572^{+0.041}_{-0.1}$	$0.70123^{+0.029}_{-0.081}$	2536	862			
$t_{ m SKS}$	$0.22562^{+0.048}$	$0.2808^{+0.033}_{-0.054}$	4777	857			
$t_{ m SW}$	$0.22562^{+0.048}_{-0.041}$	$0.2808^{+0.033}_{-0.036}$	765	269			
$t_{\overline{ ext{KS}}}$	$0.1547_{-0.043}^{+0.025}$	$0.19254_{-0.046}^{+0.023}$	4034	353			