		Particle features	s with r	$n=m=2\cdot 10^4$		
	μ -deformation			Σ_{ii} -deformation		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\% ext{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.03755^{+0.019}_{-0.018}$	$0.06003^{+0.017}_{-0.019}$	1152	$0.04347^{+0.017}_{-0.019}$	$0.06373^{+0.016}_{-0.016}$	1126
$t_{\overline{ ext{KS}}}$	$0.00993^{+0.0052}_{-0.0078}$	$0.01668^{+0.0052}_{-0.0032}$	1777	$0.02465^{+0.016}_{-0.010}$	$0.03767^{+0.017}_{-0.0092}$	2402
$t_{ m SKS}$	$0.02531^{+0.0089}_{-0.01}$	$0.03801^{+0.0058}_{-0.0072}$	3266	$0.04334^{+0.0094}_{-0.017}$	$0.05753^{+0.0085}_{-0.014}$	3575
$t_{ m FGD}$	$0.07038^{+0.025}_{-0.031}$	$0.10569^{+0.016}_{-0.021}$	5425	$\begin{array}{c} 0.06198^{+0.033}_{-0.024} \\ 0.11714^{+0.072}_{-0.054} \end{array}$	$0.08926^{+0.024}_{-0.024}$	5291
$t_{ m MMD}$	$0.21075^{+0.19}_{-0.096}$	$0.10569_{-0.021}^{+0.016} \\ 0.31926_{-0.11}^{+0.12}$	3912	$0.11714^{+0.072}_{-0.054}$	$\begin{array}{c} 0.08926^{+0.024}_{-0.024} \\ 0.15051^{+0.064}_{-0.057} \end{array}$	4844
$\Sigma_{i\neq j}$ -deformation				pow_{\perp} -deformation		
Statistic	$\epsilon_{95\%{ m CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{+}}$	t (s)
$t_{ m SW}$	$0.07169^{+0.026}_{-0.028}$	$0.11253^{+0.019}_{-0.021}$	2519	$0.04032^{+0.016}_{-0.017}$	$0.05911^{+0.015}_{-0.017}$	1172
$t_{\overline{ ext{KS}}}$	$1.03785^{+0.009}_{-0.024}$	$1.04608^{+0.0082}_{-0.016}$	3547	$0.01587^{+0.0085}_{-0.013}$	$0.02425_{-0.0046}^{+0.011}$	3776
$t_{ m SKS}$	$0.06763^{+0.03}_{-0.026}$	$0.09915^{+0.025}_{-0.025}$	8887	$0.05979^{+0.03}_{-0.024}$	$0.08436^{+0.032}_{-0.021}$	4543
$t_{ m FGD}$	$0.04432^{+0.01}_{-0.013}$	$0.06957_{-0.012}^{+0.011}$	9665	$0.03326^{+0.03}_{-0.014}$	$0.04854^{+0.028}_{-0.012}$	5966
$t_{ m MMD}$	$0.41314^{+0.1}_{-0.12}$	$0.59522^{+0.083}_{-0.13}$	33606	$0.03172_{-0.016}^{+1.9}$	$0.03834_{-0.01}^{+1.9}$	5648
powdeformation			\mathcal{N} -deformation			
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathrm{pow}_{-}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{N}}$	t (s)
$t_{ m SW}$	$0.04099^{+0.02}_{-0.02}$	$0.05783^{+0.022}_{-0.013}$	1141	$0.1312^{+0.033}_{-0.036}$	$0.17415^{+0.026}_{-0.035}$	960
$t_{\overline{ ext{KS}}}$	$0.01675^{+0.0096}_{-0.012}$	$0.0256^{+0.011}_{-0.0076}$	4437	$0.09466^{+0.019}_{-0.023}$	$0.10855^{+0.023}_{-0.021}$	3808
$t_{ m SKS}$	$0.05825^{+0.024}_{-0.028}$	$0.07685^{+0.024}_{-0.022}$	5427	$0.10894^{+0.012}_{-0.02}$	$0.13563^{+0.0038}_{-0.017}$	5278
$t_{ m FGD}$	$0.03691^{+0.028}_{-0.019}$	$0.05501^{+0.026}_{-0.017}$	5290	$0.1818^{+0.04}_{-0.037}$	$0.22626^{+0.027}_{-0.036}$	4748
$t_{ m MMD}$	$0.03173_{-0.015}^{+0.029}$	$0.04728_{-0.018}^{+0.023}$	6602	$\begin{array}{c} 0.1818^{+0.02}_{-0.037} \\ 0.38994^{+0.15}_{-0.071} \end{array}$	$0.49845^{+0.096}_{-0.12}$	6103
\mathcal{U} -deformation					Timing	
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}^{\mathcal{U}}$	t (s)	t^{null} (s)		
$t_{ m FGD}$	$0.31601^{+0.067}_{-0.064}$	$0.3933^{+0.046}_{-0.062}$	4219	1462		
$t_{ m LLR}$	-	-	-	-		
$t_{ m MMD}$	$0.73168^{+0.25}_{-0.19}$	$0.85127^{+0.23}_{-0.21}$	6154	943		
$t_{ m SKS}$	$0.19209^{+0.019}_{-0.044}$	$0.22571^{+0.02}_{-0.0097}$	5294	958		
$t_{ m SW}$	$0.2237^{+0.05}_{-0.029}$	$0.29694^{+0.044}_{-0.038}$	876	303		
$t_{\overline{ ext{KS}}}$	$0.1547^{+0.025}_{-0.043}$	$0.19254_{-0.046}^{+0.023}$	4086	386		