			$20, \mathbf{q} = 5$	5,  and  n = m = 5		
	$\mu$ -deformation			$\Sigma_{ii}$ -deformation		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.04957^{+0.018}_{-0.02}$	$0.06694_{-0.017}^{+0.017}$	3023	$0.01679^{+0.005}_{-0.0063}$	$0.02315^{+0.0045}_{-0.005}$	3197
$t_{\overline{ ext{KS}}}$	$0.00482^{+0.0013}_{-0.0018}$	$\begin{array}{c} \textbf{0.00667} \begin{array}{c} -0.017 \\ \textbf{0.00667} \\ -0.0013 \\ 0.04821 \\ -0.012 \\ \end{array} \\ \end{array}$	2966	$0.00175^{+0.00052}_{-0.00068}$	$0.00248^{+0.00042}_{-0.00052}$	3185
$t_{ m SKS}$		$0.04821^{+0.011}_{-0.012}$	2899	$0.01329^{+0.003}$	0 0 4 - 2 0 + 11 111175	3022
$t_{ m FGD}$	$ \begin{array}{c} 0.03647^{+0.011}_{-0.014} \\ 0.05778^{+0.026}_{-0.027} \\ 0.04427^{+0.019} \end{array} $	$0.0787^{+0.023}_{-0.021}$	4047	$0.01945^{+0.0063}_{-0.0081}$	$\begin{array}{c} 0.01759 \begin{array}{c} -0.002 \\ -0.003 \end{array} \\ 0.02651 \begin{array}{c} +0.0053 \\ -0.0056 \end{array} \\ 0.01305 \begin{array}{c} +0.0053 \\ -0.0044 \end{array} \end{array}$	4507
$t_{ m MMD}$		$0.06215^{+0.017}_{-0.015}$	10204	$0.00923^{+0.0058}_{-0.0051}$	$0.01305^{+0.0053}_{-0.0044}$	11217
$t_{ m LLR}$	$ \begin{array}{c c} 0.04425_{-0.018} \\ 0.00021_{-0.00014}^{+0.00013} \end{array} $	$0.0003^{+0.00013}_{-0.00014}$	5911	$7e - 05^{+5e - 05}_{-4e - 05}$	$0.0001^{+5e-05}_{-4e-05}$	6304
$\Sigma_{i \neq j}$ -deformation				$pow_+$ -deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.00639^{+0.0016}_{-0.0022}$	$0.00871^{+0.0013}_{-0.0016}$	5148	$0.00581^{+0.0017}_{-0.0022}$	$0.00798^{+0.0015}_{-0.0017}$	3157
$t_{\overline{ ext{KS}}}$	$ \begin{array}{c} 0.00639^{+0.0016}_{-0.0022} \\ 1.00146^{+0.00074}_{-0.00031} \end{array} $	$1.00238^{+0.00055}_{-0.00031}$	5495	$0.0004^{+0.00015}$	$0.00059_{-0.00014}^{+0.00013}$ $0.00565_{-0.0009}^{+0.00074}$	3363
$t_{ m SKS}$	$0.00531^{+0.0016}$	$0.00699_{-0.0016}^{+0.0014}$ $0.00388_{-0.00073}^{+0.00062}$	7233	$\begin{array}{c} -0.00017 \\ 0.0043 \substack{+0.0009 \\ -0.0013} \\ 0.00702 \substack{+0.0021 \\ -0.0028} \\ 0.00332 \substack{+0.0018 \\ -0.0017} \\ \end{array}$	$0.00565^{+0.00074}_{-0.0009}$	3193
$t_{ m FGD}$	$0.0028^{+0.00079}_{-0.001}$	$0.00388^{+0.00062}_{-0.00073}$	8575	$0.00702^{+0.0021}_{-0.0028}$	$0.00965^{+0.0016}_{-0.0019}$	4870
$t_{ m MMD}$	$0.00605^{+0.0028}_{-0.0025}$	$0.00838^{+0.0027}_{-0.0022}$	13822	$0.00332^{+0.0018}_{-0.0017}$	$0.00965^{+0.0016}_{-0.0019} \ 0.00467^{+0.0017}_{-0.0014}$	11801
$t_{ m LLR}$	$\begin{array}{c} \textbf{0.0028} \begin{array}{c} -0.002 \\ \textbf{0.0028} \begin{array}{c} +0.00079 \\ -0.001 \\ 0.00605 \begin{array}{c} +0.0028 \\ -0.0025 \\ 0.02366 \begin{array}{c} +0.0094 \\ -0.01 \end{array} \end{array}$	$0.00838^{+0.0027}_{-0.0022} \\ 0.02983^{+0.0072}_{-0.0089}$	8958	$2e - 05^{+1}_{-1} = 05$	$2e - 05^{+1e - 05}_{-1e - 05}$	6877
		$_{-}$ -deformation	$\mathcal{N} ext{-deformation}$			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$\begin{array}{c} 0.00604^{+0.0017}_{-0.0023} \\ 0.00042^{+0.00015}_{-0.00018} \\ \end{array}$	$0.00825^{+0.0016}_{-0.0018}$	3051	$0.19318^{+0.025}_{-0.039}$	$0.22704^{+0.019}_{-0.026}$	2403
$t_{\overline{ ext{KS}}}$	$0.00042^{+0.00015}_{-0.00018}$	$0.00061^{+0.00013}_{-0.00015}$	3372	$0.00751^{+0.002}_{-0.0024}$	$0.00993^{+0.0018}_{-0.002}$	2934
$t_{ m SKS}$	$0.00441^{+0.00092}_{-0.0014}$	$0.00574^{+0.00077}_{-0.00094}$	3324	$0.15874^{+0.023}_{-0.034}$	$0.18473^{+0.019}_{-0.023}$	2726
$t_{ m FGD}$	0.00=00±0.0021	$0.00987^{+0.0016}_{-0.0019}$	4892	$0.18095^{+0.023}_{-0.028}$	$0.01000 \pm 0.010$	3756
$t_{ m MMD}$	$0.00353^{+0.0016}_{-0.0015}$	$0.00494^{+0.0014}_{-0.0012}$	11418	$0.43531_{-0.11}^{+0.066}$	$0.21269_{-0.02}^{+0.02}$ $0.51609_{-0.054}^{+0.045}$	8642
$t_{ m LLR}$	$ \begin{array}{c} 0.00722^{+0.0027}_{-0.0027} \\ 0.00353^{+0.0016}_{-0.0015} \\ 2e - 05^{+1}e^{-05} \end{array} $	$2e - 05^{+1}_{-1}e^{-05}_{-05}$	6991	-	-	_
$\mathcal{U} ext{-} ext{deformation}$				Timing		
Statistic	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$t^{\text{null}}$ (s)		
$t_{ m SW}$	$0.33394^{+0.044}_{-0.068}$	$0.39248^{+0.033}_{-0.044} \ 0.01575^{+0.0027}_{-0.003}$	2354	338		
$t_{\overline{ ext{KS}}}$	$0.01211^{+0.003}_{-0.0035}$	$0.01575^{+0.0027}_{-0.003}$	2835	155		
$t_{ m SKS}$	$0.27395^{+0.041}_{-0.059}$	$0.3188^{+0.033}_{-0.04}$	2601	509		
$t_{ m FGD}$	$0.31409^{+0.04}_{-0.07}$	$0.36919^{+0.027}_{-0.036}$	3643	2795		
$t_{ m MMD}$	$0.75353_{-0.18}^{+0.12}$	$0.89336^{+0.078}_{-0.098}$	7700	13860		
$t_{ m LLR}$	_	-	-	_		