	MoG 1	model with d = 10	00, q = 1	10, and $n = m =$	$10^5$	
	$\mu$ -deformation			$\Sigma_{ii}$ -deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{\rm SW}$	$0.02814^{+0.0099}_{-0.012}$	$0.03797^{+0.009}_{-0.01}$	950	$0.00918^{+0.0025}_{-0.0035}$	$0.01247^{+0.0022}_{-0.0026}$	1022
$t_{\overline{ ext{KS}}}$	$0.00222^{+0.00077}_{-0.00084}$	$0.00307^{+0.00073}_{-0.00077}$	1541	$0.00051^{+0.0002}_{-0.0002}$	$0.00073^{+0.0002}_{-0.0002}$	1689
$t_{\rm SKS}$	$0.02341^{+0.0067}$	$0.03148^{+0.0061}_{-0.0069}$	1475	$0.00812^{+0.0016}$	$0.01068^{+0.0013}_{-0.0016}$	1557
$t_{\rm FGD}$	$0.03878^{+0.013}_{-0.014}$	$0.05066^{+0.011}_{-0.012}$	20712	$0.01263^{+0.0031}_{-0.0038}$	$0.01631^{+0.0024}_{-0.0029}$	18446
$t_{ m MMD}$	$\perp 0.03601^{+0.0081}$	$0.04577^{+0.0065}_{-0.0076}$	10677	$0.00722^{+0.0022}_{-0.0024}$	$0.00915^{+0.0019}_{-0.002}$	11691
$t_{ m NPLM}$	$0.0029^{+0.00093}_{-0.0012}$	0 000× 4±0 00079	44613	$0.00094^{+0.00029}_{-0.0004}$	$0.00114 \pm 0.00026$	39241
$t_{ m NPLM}$	$\begin{array}{c} 0.09001_{-0.01} \\ 0.0029_{-0.0012}^{+0.00093} \\ 0.00244_{-0.001}^{+0.00075} \end{array}$	$0.00294^{+0.00066}_{-0.00082}$	49058	$0.00083^{+0.00024}_{-0.00035}$	$0.00099^{+0.00022}$	50580
$t_{ m LLR}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0.00354_{-0.00096}^{+0.00096}$ $0.00294_{-0.00082}^{+0.00082}$ $4e - 05_{-2e-05}^{+1e-05}$	24750	$\begin{array}{c} 0.00094^{+0.00029}_{-0.0004} \\ 0.00083^{+0.00024}_{-0.00035} \\ 0.0^{+1e-05}_{-0} \end{array}$	$1e - 05^{+0}_{-1e-05}$	34527
$\Sigma_{i \neq j}$ -deformation				$pow_+$ -deformation		
Statistic	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{\rm SW}$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0.02315^{+0.0036}_{-0.0045} \\ 1.00073^{+0.00025}_{-0.00012}$	3531	$0.00368^{+0.001}_{-0.0014}$	$0.00498^{+0.00086}_{-0.001}$	1026
$t_{\overline{ ext{KS}}}$	$1.00061^{+0.00012}_{-0.00012}$	$1.00073^{+0.00025}_{-0.00012}$	9908	$0.00018^{+8e-05}$	$0.00027^{+7e-05}_{-8e-05}$	1743
$t_{\rm SKS}$	$0.01855^{+0.0049}_{-0.0066}$	$0.02508^{+0.0043}_{-0.0052}$	4171	$0.00331^{+0.0006}$	$0.00027^{+7e-05}_{-8e-05} 0.0043^{+0.00047}_{-0.00058}$	1594
$t_{ m FGD}$	$0.00299^{+0.00073}_{-0.00088}$	$0.00389^{+0.0006}_{-0.00068}$	25716	$0.00505^{+0.0012}_{-0.0016}$	$0.00652^{+0.00098}_{-0.0012}$	19149
$t_{ m MMD}$	$0.01259^{+0.0035}$	$0.01586^{+0.0032}_{-0.0032}$	14405	$0.00263^{+0.00077}_{-0.00099}$	$0.0033^{+0.0007}_{-0.00071}$	12093
$t_{ m NPLM}$	$0.0012^{+0.0005}_{-0.0005}$	$0.0015^{+0.00041}_{-0.0004}$	47259	$0.00036^{+0.00011}_{-0.00015}$	$0.00044^{+0.0001}$	53210
$t_{ m NPLM}$	$\begin{array}{c} 0.0012^{+0.0035} \\ 0.0012^{+0.0005}_{-0.0005} \\ 0.01406^{+0.0036}_{-0.0055} \end{array}$	$0.0015_{-0.0004}^{+0.00041} \\ 0.01671_{-0.0043}^{+0.0029}$	40761	$0.00036^{+0.00011}_{-0.00015} \\ 0.00032^{+9e-05}_{-0.00013}$	$0.00038^{+9e-05}_{-0.0001}$	47529
$t_{ m LLR}$	-	-	-	$0.0^{+0}_{-0}$	$0.0_{-0}^{+0}$	30414
powdeformation			$\mathcal{N} ext{-deformation}$			
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{\rm SW}$	$\begin{array}{c c} 0.00374^{+5}_{-0.0014} \\ 0.00018^{+8e-05}_{-7e-05} \\ 0.00018^{+0.0004} \end{array}$	$0.00505^{+5}_{-0.0011}$	935	$\begin{array}{c} 0.17253^{+0.022}_{-0.036} \\ 0.00606^{+0.0029}_{-0.0031} \end{array}$	$0.20139^{+0.016}_{-0.021}$	838
$t_{\overline{ ext{KS}}}$	$0.00018^{+8e-05}_{-7e-05}$	$0.00027^{+8e-05}_{-8e-05}$	1753	$0.00606^{+0.0029}_{-0.0031}$	$0.00921_{-0.003}^{+0.0027}$	1589
$t_{\rm SKS}$	$0.00331^{+0.00064}_{-0.00098}$	$0.00027^{+8e-05}_{-8e-05}$ $0.0043^{+0.00051}_{-0.00063}$	1605	$0.14876^{+0.02}_{-0.031}$	$0.17443^{+0.016}_{-0.021}$	1363
$t_{\rm FGD}$	1 0 0019	0.00000000000000000000000000000000000	19105	$0.15458^{+0.031}_{-0.027}$	$0.17576^{+0.014}_{-0.016}$	15222
$t_{\rm MMD}$	$ \begin{array}{c} 0.00504^{+0.0012}_{-0.0016} \\ 0.00257^{+0.00071}_{-0.0008} \\ 0.00035^{+0.00011} \end{array} $	$0.00329^{+0.00064}_{-0.0066}$	12099	$0.67808^{+0.07}_{-0.11}$	$0.17576_{-0.016}^{+0.014} \\ 0.7615_{-0.069}^{+0.053}$	8142
$t_{ m NPLM}$	U.UUU35	$0.00043^{+0.0001}_{-0.0012}$	44155	$0.12423^{+0.023}_{-0.041}$		31727
$t_{ m NPLM}$	$0.00032_{-0.00014}^{+9e-05}$	$0.00038^{+9e-05}_{-0.00011}$	46986	$0.10102^{+0.019}_{-0.03}$	$\begin{array}{c} 0.14175^{+0.016}_{-0.028} \\ 0.11354^{+0.015}_{-0.021} \end{array}$	32670
$t_{ m LLR}$	$0.0^{+0}_{-0}$	$0.0^{+0}_{-0}$	39144	-	-	-
$\mathcal{U}$ -deformation Timing						
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$t^{\text{null}}$ (s)	Ü	
$t_{\rm SW}$	$0.2996^{+0.036}_{-0.063}$	$0.34972^{+0.028}_{-0.038}$	665	476		
$t_{\overline{ ext{KS}}}$	$0.00925^{+0.0047}_{-0.005}$	$0.01423^{+0.0043}_{-0.0048}$	1590	1594		
$t_{ m SKS}$	$0.25702_{-0.054}^{+0.037}$	$0.30137^{+0.028}_{-0.036}$	1316	1753		
	0.004	$0.3051_{-0.03}^{+0.022}$	12103	39629		
$t_{\rm FGD}$	$0.26668^{+0.031}_{-0.044}$	0.000 = [1.113				
$t_{ m FGD}$ $t_{ m MMD}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1.32064^{+0.093}_{-0.12}$	9105	18930		
$t_{ m MMD}$	$\begin{array}{c c} 1.17598^{+0.12}_{-0.19} \\ 0.21387^{+0.039}_{-0.039} \end{array}$	$1.32064_{-0.12}^{+0.093}$ $0.24534_{-0.029}^{+0.029}$	9105 29733	18930 50710		
	$\begin{array}{c} 0.26668_{-0.044}^{+0.031} \\ 1.17598_{-0.19}^{+0.12} \\ 0.21387_{-0.066}^{+0.039} \\ 0.17631_{-0.052}^{+0.03} \end{array}$	$\begin{array}{c} 1.32064^{+0.093}_{-0.12} \\ 0.24534^{+0.029}_{-0.043} \\ 0.1986^{+0.024}_{-0.038} \end{array}$				