GG 11 11 1 100 1 10 <sup>5</sup>						
CG model with $d = 100$ and $n = m = 10^5$						
Q1 1: 1:	$\mu$ -deformation		$\Sigma_{ii}$ -deformation		, ( )	
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\text{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.02667^{+0.0083}_{-0.0098}$	$0.03433^{+0.0074}_{-0.008}$	725	$0.01065^{+0.0031}_{-0.0038}$	$0.01351^{+0.0028}_{-0.003}$	753
$t_{\overline{ ext{KS}}}$	$0.02531^{+0.0078}_{-0.0089}$	$0.03236^{+0.0073}_{-0.0079}$	1179	$0.0127^{+0.0042}_{-0.0049}$	$0.01612^{+0.004}_{-0.0042}$	1267
$t_{ m SKS}$	$0.02742^{+0.0084}_{-0.01}$	$0.03493^{+0.0077}_{-0.0086}$	1219	$0.01323^{+0.0042}_{-0.0052}$	$0.01674_{-0.0043}^{+0.0038}$	1311
$t_{\rm FGD}$	$0.0292^{+0.01}_{-0.011}$	$0.03631^{+0.0089}_{-0.0088}$	18261	$0.0095^{+0.00328}_{-0.0031}$	$0.01169^{+0.0026}_{-0.0026}$	18550
$t_{ m MMD}$	$0.0207^{+0.0092}_{-0.0077}$	$0.02578^{+0.0087}_{-0.0071}$	13097	$0.01289^{+0.005}_{-0.0045}$	$0.01617^{+0.0047}_{-0.004}$	11384
$t_{ m NPLM}$	$0.01096^{+0.0038}_{-0.0051}$	$0.01355^{+0.0033}_{-0.0038}$	47134	$0.00309^{+0.001}_{-0.0014}$	$0.00383^{+0.00087}_{-0.0011}$	34168
$t_{ m NPLM}$	$0.01096^{+0.0038}_{-0.0051}$ $0.00867^{+0.003}_{-0.0035}$	$0.01355^{+0.0038}_{-0.0038}$ $0.01057^{+0.0027}_{-0.0029}$	49340	$0.00475^{+0.0014}_{-0.0018}$	$0.0058^{+0.0011}_{-0.0014}$	52154
$t_{ m LLR}$	$\begin{array}{c} 0.00867^{+0.003}_{-0.0035} \\ 0.00164^{+0.0012}_{-0.0012} \end{array}$	$0.01057_{-0.0029} \\ 0.00237_{-0.0012}^{+0.0012}$	15370	$\begin{array}{c} 0.00475^{+0.0014}_{-0.0018} \\ 0.00031^{+0.00021}_{-0.00022} \end{array}$	$0.0058_{-0.0014}^{+0.00022} \\ 0.00045_{-0.00022}^{+0.00022}$	16289
$\Sigma_{i\neq j}$ -deformation				$pow_+$ -deformation		
Statistic	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\% ext{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.02377^{+0.0066}_{-0.0087}$	$0.03118^{+0.0056}_{-0.0069}$	3290	$0.00229^{+0.00068}_{-0.00082}$	$0.00293^{+0.00062}_{-0.00067}$	797
$t_{\overline{ ext{KS}}}$	$1.01551_{-0.012}^{-0.0037}$	$1.01751^{+0.002}_{-0.0019}$	7986	$0.0027^{+0.0008}_{-0.00094}$	$0.0034^{+0.00073}_{-0.0008}$	1351
$t_{ m SKS}$	$0.03165^{+0.01}_{-0.014}$	$0.04062^{+0.0099}_{-0.011}$	3941	$0.00254^{+0.00073}_{-0.00093}$	$0.00319^{+0.00067}_{-0.00074}$	1405
$t_{ m FGD}$	$0.0023^{+0.0005}_{-0.008}$	$0.00279^{+0.0005}_{-0.0006}$	27911	$0.00232^{+0.00071}_{-0.0008}$	$0.00286^{+0.00064}_{-0.00066}$	19919
$t_{ m MMD}$	$\begin{array}{c} -0.0008 \\ 0.0153^{+0.0067}_{-0.0062} \\ 0.0041^{+0.0015}_{-0.0026} \end{array}$	$\begin{array}{c} -0.0008 \\ 0.01957^{+0.0065}_{-0.0054} \\ 0.00521^{+0.0012}_{-0.0017} \end{array}$	14216	$0.00163^{+0.00076}_{-0.0006}$	$0.00205^{+0.00071}$	12499
$t_{ m NPLM}$	$0.0041^{+0.0015}_{-0.0026}$	$0.00521^{+0.0012}_{-0.0017}$	57914		$\begin{array}{c} 0.00133^{+0.00031}_{-0.00038} \\ 0.00113^{+0.00031}_{-0.00038} \\ 0.00115^{+0.00028}_{-0.00031} \end{array}$	34064
$t_{ m NPLM}$	$0.0041_{-0.0026}^{+0.0026}$ $0.00639_{-0.0023}^{+0.0017}$	$\begin{array}{c} 0.00521^{+0.0012}_{-0.0017} \\ 0.00779^{+0.0015}_{-0.0019} \end{array}$	56093	$0.00094^{+0.00031}_{-0.00030}$	$0.00115^{+0.00028}_{-0.00031}$	56161
$t_{ m LLR}$	-	-	-	$0.0001_{-7e-05}^{+7e-05}$	$0.00015^{+7e-05}_{-7e-05}$	21800
powdeformation			$\mathcal{N} ext{-deformation}$			
Statistic	$ \epsilon_{95\%{ m CL}} $	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$\epsilon_{95\%\mathrm{CL}}$	$\epsilon_{99\%\mathrm{CL}}$	t (s)
$t_{ m SW}$	$0.00229^{+5}_{-0.00096}$	$0.00293^{+5}_{-0.00079}$	717	$0.28179^{+0.039}_{-0.054}$	$0.32012^{+0.032}_{-0.037}$	619
$t_{\overline{ ext{KS}}}$	$0.0027^{+0.00096}_{-0.001}$	$0.0034_{-0.00085}^{+0.00073}$	1373	$0.3116^{+0.034}_{-0.067}$	$0.35101_{-0.049}^{-0.037}$	1063
$t_{ m SKS}$	$0.00253_{-0.0011}^{+0.00087}$	$0.00316^{+0.00083}_{-0.00092}$	1404	$\begin{array}{c c} -0.007 \\ 0.30315^{+0.045}_{-0.07} \end{array}$	$0.34204_{-0.05}^{-0.049}$	1102
$t_{ m FGD}$	$0.00225^{+0.00076}_{-0.00086}$	0.00071	20138	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0.1479_{-0.016}^{-0.0311}$	15260
$t_{ m MMD}$	$0.00143^{+0.00077}_{-0.00064}$	$0.00185^{+0.00073}_{-0.0006}$	12506	$0.68952^{+0.078}_{-0.098}$	$0.77914^{+0.057}_{-0.067}$	8037
$t_{ m NPLM}$		$0.00144^{+0.00034}_{-0.0004}$	55477	$0.16858^{+0.034}_{-0.071}$	$0.19432^{+0.024}_{-0.037}$	19393
$t_{ m NPLM}$		$0.00119^{+0.00027}_{-0.00031}$	64223	$0.21257^{+0.035}_{-0.054}$	$0.23984^{+0.026}_{-0.036}$	48861
$t_{ m LLR}$	$\begin{array}{c} 0.00098^{+0.00031}_{-0.00038} \\ 0.00012^{+7e-05}_{-7e-05} \end{array}$	$0.00017^{+7e-05}_{-7e-05}$	17336	-0.034	-0.030	-
$\mathcal{U}$ -deformation					Timing	
Statistic	$ \epsilon_{95\%{ m CL}} $	$\epsilon_{99\%\mathrm{CL}}$	t (s)	$t^{\text{null}}$ (s)		
$t_{ m SW}$	$0.4924^{+0.067}_{-0.098}$	$0.55614_{-0.064}^{+0.053}$	588	394		
$t_{\overline{ ext{KS}}}$	$\begin{array}{c c} 0.1621_{-0.098} \\ 0.54132_{-0.12}^{+0.081} \end{array}$	$0.60655^{+0.069}_{-0.083}$	1034	1499		
$t_{ m SKS}$	$0.52074_{-0.12}^{+0.082}$	$0.59085^{+0.066}_{-0.087}$	1039	1603		
$t_{ m FGD}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0.25498^{+0.021}_{-0.028}$	14613	51866		
$t_{ m MMD}$	$1.19904_{-0.18}^{+0.13}$	$1.34688^{+0.11}_{-0.12}$	8790	18801		
$t_{ m NPLM}$	$0.20100^{+0.059}$	$0.33486^{+0.045}$	20854	62372		
$t_{ m NPLM}$	$0.37298^{+0.055}_{-0.094}$	$0.4185^{+0.043}_{-0.062}$	34046	80148		
$t_{ m LLR}$		-0.062	-	-		
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