

CMoG model with d = 20, q = 5, and n = m = 5 · 10 <sup>4</sup>						
μ-deformation				Σ <sub>ii</sub> -deformation		
Statistic	ϵ <sub>95%CL</sub>	ϵ <sub>99%CL</sub>	t (s)	ϵ <sub>95%CL</sub>	ϵ <sub>99%CL</sub>	t (s)
t <sub>SW</sub>	0.04957 <sup>+0.018</sup> <sub>-0.02</sub>	0.06694 <sup>+0.017</sup> <sub>-0.017</sub>	3023	0.01679 <sup>+0.005</sup> <sub>-0.0063</sub>	0.02315 <sup>+0.0045</sup> <sub>-0.005</sub>	3197
t <sub>KS</sub>	<b>0.00482<sup>+0.0013</sup><sub>-0.0018</sub></b>	<b>0.00667<sup>+0.0011</sup><sub>-0.0013</sub></b>	2966	<b>0.00175<sup>+0.00052</sup><sub>-0.00068</sub></b>	<b>0.00248<sup>+0.00042</sup><sub>-0.00052</sub></b>	3185
t <sub>SKS</sub>	0.03647 <sup>+0.011</sup> <sub>-0.014</sub>	0.04821 <sup>+0.011</sup> <sub>-0.012</sub>	<b>2899</b>	0.01329 <sup>+0.003</sup> <sub>-0.0043</sub>	0.01759 <sup>+0.0025</sup> <sub>-0.003</sub>	<b>3022</b>
t <sub>FGD</sub>	0.05778 <sup>+0.026</sup> <sub>-0.027</sub>	0.0787 <sup>+0.023</sup> <sub>-0.021</sub>	4047	0.01945 <sup>+0.0063</sup> <sub>-0.0081</sub>	0.02651 <sup>+0.0053</sup> <sub>-0.0056</sub>	4507
t <sub>MMD</sub>	0.04425 <sup>+0.019</sup> <sub>-0.018</sub>	0.06215 <sup>+0.017</sup> <sub>-0.015</sub>	10204	0.00923 <sup>+0.0058</sup> <sub>-0.0051</sub>	0.01305 <sup>+0.0053</sup> <sub>-0.0044</sub>	11217
t <sub>LLR</sub>	0.00021 <sup>+0.00013</sup> <sub>-0.00014</sub>	0.0003 <sup>+0.00013</sup> <sub>-0.00014</sub>	5911	7e − 05 <sup>+5e−05</sup> <sub>-4e−05</sub>	0.0001 <sup>+5e−05</sup> <sub>-4e−05</sub>	6304
Σ <sub>i≠j</sub> -deformation				pow <sub>+</sub> -deformation		
Statistic	ϵ <sub>95%CL</sub>	ϵ <sub>99%CL</sub>	t (s)	ϵ <sub>95%CL</sub>	ϵ <sub>99%CL</sub> <sup>pow<sub>+</sub></sup>	t (s)
t <sub>SW</sub>	0.00377 <sup>+0.00098</sup> <sub>-0.0013</sub>	0.00513 <sup>+0.00085</sup> <sub>-0.00097</sub>	2111	0.00581 <sup>+0.0017</sup> <sub>-0.0022</sub>	0.00798 <sup>+0.0015</sup> <sub>-0.0017</sub>	<b>3157</b>
t <sub>KS</sub>	<b>0.00033<sup>+0.0001</sup><sub>-0.00011</sub></b>	<b>0.00046<sup>+0.0001</sup><sub>-0.0001</sub></b>	<b>2033</b>	<b>0.0004<sup>+0.00015</sup><sub>-0.00017</sub></b>	<b>0.00059<sup>+0.00013</sup><sub>-0.00014</sub></b>	3363
t <sub>SKS</sub>	0.00244 <sup>+0.00075</sup> <sub>-0.00092</sub>	0.00329 <sup>+0.00067</sup> <sub>-0.00077</sub>	2098	0.0043 <sup>+0.0009</sup> <sub>-0.0013</sub>	0.00565 <sup>+0.00074</sup> <sub>-0.0009</sub>	3193
t <sub>FGD</sub>	0.00268 <sup>+0.00075</sup> <sub>-0.0011</sub>	0.0037 <sup>+0.0006</sup> <sub>-0.00071</sub>	3753	0.00702 <sup>+0.0021</sup> <sub>-0.0028</sub>	0.00965 <sup>+0.0016</sup> <sub>-0.0019</sub>	4870
t <sub>MMD</sub>	0.00527 <sup>+0.0019</sup> <sub>-0.0021</sub>	0.00742 <sup>+0.0017</sup> <sub>-0.0016</sub>	12555	0.00332 <sup>+0.0018</sup> <sub>-0.0017</sub>	0.00467 <sup>+0.0017</sup> <sub>-0.0014</sub>	11801
t <sub>LLR</sub>	0.0 <sup>+1e−05</sup> <sub>-0</sub>	1e − 05 <sup>+0</sup> <sub>-1e−05</sub>	6656	2e − 05 <sup>+1e−05</sup> <sub>-1e−05</sub>	2e − 05 <sup>+1e−05</sup> <sub>-1e−05</sub>	6877
pow <sub>-</sub> -deformation				ℳ-deformation		
Statistic	ϵ <sub>95%CL</sub>	ϵ <sub>99%CL</sub> <sup>pow<sub>-</sub></sup>	t (s)	ϵ <sub>95%CL</sub>	ϵ <sub>99%CL</sub> <sup>ℳ</sup>	t (s)
t <sub>SW</sub>	0.00604 <sup>+0.0017</sup> <sub>-0.0023</sub>	0.00825 <sup>+0.0016</sup> <sub>-0.0018</sub>	<b>3051</b>	0.19318 <sup>+0.025</sup> <sub>-0.039</sub>	0.22704 <sup>+0.019</sup> <sub>-0.026</sub>	<b>2403</b>
t <sub>KS</sub>	<b>0.00042<sup>+0.00015</sup><sub>-0.00018</sub></b>	<b>0.00061<sup>+0.00013</sup><sub>-0.00015</sub></b>	3372	<b>0.00751<sup>+0.002</sup><sub>-0.0024</sub></b>	<b>0.00993<sup>+0.0018</sup><sub>-0.002</sub></b>	2934
t <sub>SKS</sub>	0.00441 <sup>+0.00092</sup> <sub>-0.0014</sub>	0.00574 <sup>+0.00077</sup> <sub>-0.00094</sub>	3324	0.15874 <sup>+0.023</sup> <sub>-0.034</sub>	0.18473 <sup>+0.019</sup> <sub>-0.023</sub>	2726
t <sub>FGD</sub>	0.00722 <sup>+0.0021</sup> <sub>-0.0027</sub>	0.00987 <sup>+0.0016</sup> <sub>-0.0019</sub>	4892	0.18095 <sup>+0.023</sup> <sub>-0.038</sub>	0.21269 <sup>+0.016</sup> <sub>-0.02</sub>	3756
t <sub>MMD</sub>	0.00353 <sup>+0.0016</sup> <sub>-0.0015</sub>	0.00494 <sup>+0.0014</sup> <sub>-0.0012</sub>	11418	0.43531 <sup>+0.066</sup> <sub>-0.11</sub>	0.51609 <sup>+0.045</sup> <sub>-0.054</sub>	8642
t <sub>LLR</sub>	2e − 05 <sup>+1e−05</sup> <sub>-1e−05</sub>	2e − 05 <sup>+1e−05</sup> <sub>-1e−05</sub>	6991	-	-	-
ℳ-deformation				Timing		
Statistic	ϵ <sub>95%CL</sub>	ϵ <sub>99%CL</sub> <sup>ℳ</sup>	t (s)	t <sup>null</sup> (s)		
t <sub>SW</sub>	0.33394 <sup>+0.044</sup> <sub>-0.068</sub>	0.39248 <sup>+0.033</sup> <sub>-0.044</sub>	<b>2354</b>	338		
t <sub>KS</sub>	<b>0.01211<sup>+0.003</sup><sub>-0.0035</sub></b>	<b>0.01575<sup>+0.0027</sup><sub>-0.003</sub></b>	2835	<b>155</b>		
t <sub>SKS</sub>	0.27395 <sup>+0.041</sup> <sub>-0.059</sub>	0.3188 <sup>+0.033</sup> <sub>-0.04</sub>	2601	509		
t <sub>FGD</sub>	0.31409 <sup>+0.04</sup> <sub>-0.07</sub>	0.36919 <sup>+0.027</sup> <sub>-0.036</sub>	3643	2795		
t <sub>MMD</sub>	0.75353 <sup>+0.12</sup> <sub>-0.18</sub>	0.89336 <sup>+0.078</sup> <sub>-0.098</sub>	7700	13860		
t <sub>LLR</sub>	-	-	-	-		