FYS 3150 - Project 3

Lorenzo Speri

University of Oslo, Department of Physics

(Dated: November 24, 2017)

I. ABSTRACT

- URL to GitHub folder of the code: `https://github.com/lorenzsp/Project4.git`

II. INTRODUCTION

III. METHODS AND ALGORITHMS

Table I: The table shows the running time when we parallelize a code or not. The code has calculated $< E >$, $< |M| >$, χ, C_v in a temperature range $T \in [2.2, 2.3]\, kT/J$ with a temperature step size $dT = 0.005$ for different lattice dimension L

L	Parallelized code	Normal code
40	2.18656	7.33698
60	4.75809	17.0014
80	8.43173	29.8397
100	14.1064	46.9271
	time in seconds	time in seconds

IV. RESULTS

V. CONCLUSION

VI. BIBLIOGRAPHY

- M. H. Jensen, *Computational physics - Lecture notes Fall 2015*, University of Oslo - Department of Physics, 2015.