

Master's thesis

Tensor Network renormalization
for Non-uniform Classical Spin System
(非一様な古典スピン系に対するテンソルネットワーク繰り込み)

Supervisor: Prof. Synge Todo

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35166100 Takuya Yamamoto

*Department of Physics, Graduate School of Science, The University of Tokyo
Hongo 7-3-1, Bunkyo-ku, Tokyo 113-8656, Japan*

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Chapter 1

Introduction

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Chapter 2

Tensor Network Method

2.1 2. Tensor Network group

Levin

Chapter 3

Higher Order Tensor Network Renormalization

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Chapter 4

Application to percolation

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Chapter 5

Summary

Appendix A

Appendix

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Bibliography

- [1] Levin, M. & Nave, C. P. Tensor renormalization group approach to two-dimensional classical lattice models. *Phys. Rev. Lett.* **99**, 120601 (2007). URL <https://link.aps.org/doi/10.1103/PhysRevLett.99.120601>.