

Untitled Project

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Whatever goes here. Probably some .sty is given

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Chapter 1

Introduction

- 1.1 Statistical Physics of Ising Model
- 1.2 Statistical Physics of XY Model
- 1.3 Statistical Physics of Other Spin Models (Time Permitting)
- 1.4 Monte-Carlo Methods
 - 1.4.1 Metropolis
 - 1.4.2 Other Algorithms (Time Permitting)
- 1.5 Discussion on Error Analysis

Chapter 2

Results from the Ising Model

2.1 Basic Results

2.2 Autocorrelations

2.3 Critical Exponents

2.4 Finite Size Effects

Chapter 3

Results from the XY Model

3.1 Basic Results

3.2 Autocorrelations

3.3 Critical Exponents

3.4 Effects from Topology (vortices etc.)

Chapter 4

Other results from Models

Chapter 5

Appendices if necessary