XY model

Musso

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## Introduction

- 1.1 Ising model
- 1.2 *n*-vector model

## XY model

- 2.1 Definition
- 2.2 2D case
- 2.3 3D case

#### Montecarlo simulation

- 3.1 Monte Carlo Theory
- 3.2 Implementation
- 3.3 Results

# Conclusion