

Title of the chapter

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Abstract

Abstract should not more than 250 words.

2020 AMS Classification:

Keywords and phrases:

1 Introduction

Your Text here

2 Equations

Let us see how easy it is to write equations.

$$\Delta = \sum_{i=1}^N w_i (x_i - \bar{x})^2. \quad (1)$$

It is a good idea to number equations, but we can have a equation without a number by writing

$$P(x) = \frac{x - a}{b - a},$$

and

$$g = \frac{1}{2}\sqrt{2\pi}.$$

We can give an equation a label so that we can refer to it later .

$$E = -J \sum_{i=1}^N s_i s_{i+1}, \quad (2)$$

Equation (2) expresses the energy of a configuration of spins in the Ising model.¹

Theorem 2.1 (Al-Fuqaha et al., 2015). *Theorem text here.*

Corollary 2.2 (Al-Fuqaha et al., 2015). *Corollary text here.*

Proposition 2.3 (Al-Fuqaha et al., 2015). *Proposition text here.*

Lemma 2.4 (Al-Fuqaha et al., 2015). *Lemma text here.*

Proof. Proof text here. □

Definition 2.1 (Giusto et al., 2010). Definition text here.

Example 2.2 (Hossain et al., 2015). Example text here.

Remark 2.3 (Hossain et al., 2015). Remark text here.

3 Tables

Tables are a little more difficult. TeX automatically calculates the width of the columns.

lattice	d	q	T_{mf}/T_c
square	2	4	1.763
triangular	2	6	1.648
diamond	3	4	1.479
simple cubic	3	6	1.330
bcc	3	8	1.260
fcc	3	12	1.225

Table 1: Comparison of the mean-field predictions for the critical temperature of the Ising model with exact results and the best known estimates for different spatial dimensions d and lattice symmetries.

4 Lists

Some example of formatted lists include the following:

1. Numbered item
2. Numbered item
 - Bulleted item
 - Bulleted item

5 Figures

We can make figures bigger or smaller by scaling them. Figure 2 has been scaled by 60%.

¹It is necessary to process (typeset) a file twice to get the counters correct.

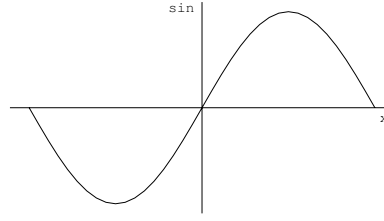


Figure 1: Show me a sine.

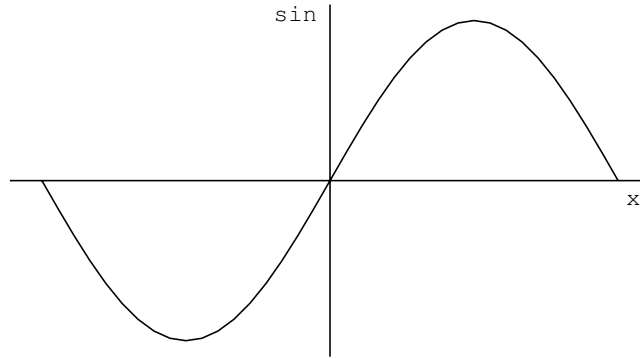


Figure 2: Plot of the Lennard-Jones potential $u(r)$. The potential is characterized by a length σ and an energy ϵ .

References

- Al-Fuqaha, A., Guizani, M., Mohammadi, M., Aledhari, M., & Ayyash, M. (2015). Internet of things: A survey on enabling technologies, protocols, and applications. *IEEE Communications Surveys & Tutorials*, 17(4), 2347–2376. <https://doi.org/10.1109/COMST.2015.2444095>
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