

Title of the article

First Author¹, Second Author², and Third Author³

¹Department, University, City, Country (E-mail: firstauthor@email.com)

ORCID: 0000-0000-0000-0000

²Department, University, City, Country (E-mail: secondauthor@email.com)

ORCID: 0000-0000-0000-0000

³Department, University, City, Country (E-mail: thirdauthor@email.com)

ORCID: 0000-0000-0000-0000

Preprint submitted to RGN Publications on Day/Month/Year

Abstract

Abstract should not more than 250 words.

2010 AMS Classification:

Keywords and phrases:

Article type: (Please select only one type)

Research article or Survey article or Book Review or Case Study or Thesis Abstract or
Bibliographic work

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.

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

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

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. bread
2. cheese
 - Tom
 - Dick

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.

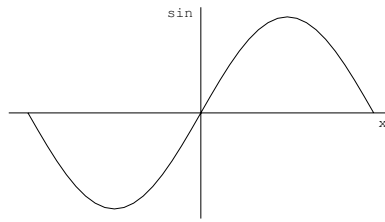


Figure 1: Show me a sine.

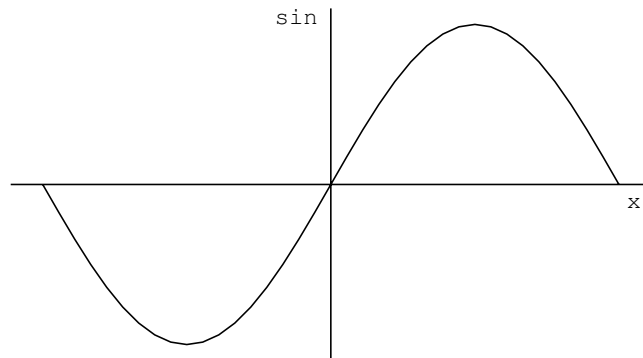


Figure 2: Plot of the Lennard-Jones potential $u(r)$. The potential is characterized by a length σ and an energy ϵ .

Acknowledgement

Detail of research grants etc.

References

- [1] H. Akima, A new method of interpolation and smooth curve fitting based on local procedures, *Journal of Association for Computing Machinery* **17** (1970), 589 – 602, doi:[10.1145/321607.321609](#).
- [2] H. Behforooz, Approximation by integro cubic splines, *Applied Mathematics and Computation* **175** (2006), 8 – 15, doi:[10.1016/j.amc.2005.07.066](#).
- [3] M. Fischer and P. Oja, Monotonicity preserving rational spline histopolation, *Journal of Computational and Applied Mathematics* **175** (2005), 195 – 208, doi:[10.1016/j.cam.2004.05.009](#).
- [4] M. Fischer, P. Oja and H. Trossmann, Comonotone shape-preserving spline histopolation, *Journal of Computational and Applied Mathematics* **200** (2007), 127 – 139, doi:[10.1016/j.cam.2005.12.010](#).