

# Title of the article

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## Abstract

Abstract should not more than 250 words.

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**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.<sup>1</sup>

**Theorem 2.1** ([1]). *Theorem text here.*

**Corollary 2.2** ([1]). *Corollary text here.*

**Proposition 2.3** ([1]). *Proposition text here.*

**Lemma 2.4** ([1]). *Lemma text here.*

*Proof.* Proof text here. □

**Definition 2.1** ([1]). Definition text here.

**Example 2.2** ([1]). Example text here.

**Remark 2.3** ([1]). Remark text here.

### 3 Tables

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

lattice	$d$	$q$	$T_{\text{mf}}/T_c$
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.

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

## 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%.

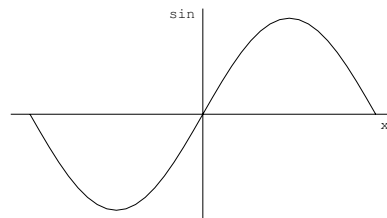


Figure 1: Show me a sine.

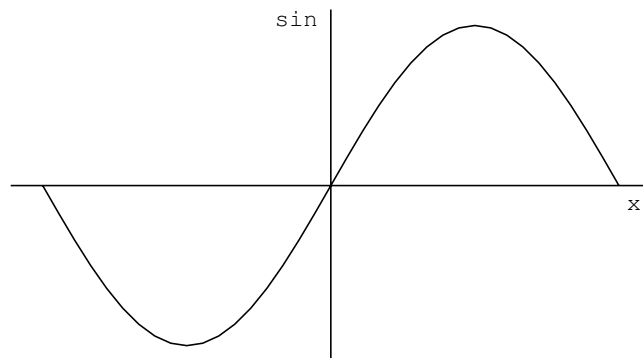


Figure 2: Plot of the Lennard-Jones potential  $u(r)$ . The potential is characterized by a length  $\sigma$  and an energy  $\epsilon$ .

## 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1016/j.cam.2005.12.010).