

How to write a paper using LaTeX

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Abstract

If you use this template and follow the instructions therein, you will be able to write a paper using LaTeX.

1 INTRODUCTION

Here give an introduction to your research.

2 TEXTS

2.1 Abstract

Your contribution should be preceded by a *short* Abstract of not more than 150 words, written as a single paragraph, as above.

2.2 Formulae

Symbols of variables should be typed in math mode. For example, to get the Greek letter alpha, type `\alpha`; it should come out looking like α .

Equations should be numbered consecutively, with the number enclosed in parentheses and placed flush with the right-hand margin.

Here is an example of an equation, The Schroedinger equation for the wave function $\psi(\vec{x}, t)$

$$-\frac{\hbar^2}{2m}\nabla^2\psi + V\psi = E\psi. \tag{1}$$

If you want to refer to the equation, you can use the `\label`, with (`\ref{label}`). For example, the above equation is (1).

2.3 Footnotes

If unavoidable, footnotes should be placed at the bottom of the page in which they are referred to.

Figure 1: Example of a figure; but it's empty until you provide an eps (encapsulated postscript) file. (See the source page.)

2.4 References

References should be cited in the text using numbers within square brackets: 'example [1], example [1, 2], example [1–5]', or alternatively as 'Ref. [1], Refs. [1] to [5]', and 'Reference' in full if this word occurs at the beginning of a sentence. They should *appear in consecutive numerical order* and should be listed at the end of the text. Unless you are near the bottom of the last page of text, do *not* start a new page for the list of references, but continue on the same page. Note that in the list of references it is unnecessary to state the title of an article or chapter in proceedings or in a collection of papers unless a page number cannot be quoted, e.g. for future publications.

For example, here's a reference to the paper listed in the bibliography (at the end): Ref. [1].

2.4.1 Figures

All figures should be quoted in consecutive numerical order in the text and should, for example, be referred to as 'Fig. 3, Figs. 3–5', etc., or 'Figure' at the beginning of a sentence. All figures, diagrams, etc., must remain within the same area.

Figure captions should be brief and, if possible, go *below* the illustration, e.g. 'Fig. 3 A short title'. They should be typed in point size 9. Very detailed illustrations may require a full page; if necessary, they may be placed sideways on the page; when this is done, no text may appear on that page, and the caption must also read sideways.

Where possible, figures should be prepared electronically. We can handle Encapsulated Postscript.

Here is an example of a figure.

2.4.2 Tables

Tables should be referred to in the text as Table 1, Tables 2–7. They should be centred on the page width, with the table number, followed by a brief caption in point size 9, typed *above* them if possible. For the positioning of tables, follow the same rules as those for numbered figures.

2.5 Appendices

These should be laid out as the sections in the text, except that each appendix should start on a new page. They should be numbered consecutively and be

referred to as Appendix 1, Appendices 1–3, etc. Equations, figures and tables should be quoted as Eq. (A.1.1) and Fig. A.1.1, etc.

Acknowledgements

If required, acknowledgements should appear as a section immediately before the reference section. The acknowledgements section should not be numbered.

APPENDIX 1 – PREPARING A CONTRIBUTION IN LATEX

We can accept contributions prepared using Latex.

TEXTS

The standard Latex commands `\section`, `\subsection` and `\subsubsection` should be used for headings. In the text, leave a blank line after each paragraph. References to other documents should be made using the `\cite` command. The command `\ref` should be used to refer to equations, figures and tables within your contribution which should be labelled using the `\label` command within the equation, figure or table environment.

FORMULAE

The default Tex format is acceptable for most formulae. For numbered equations, the construction

```
\begin{equation}
...
\label{name}
\end{equation}
```

should be used.

FIGURES

Figures may be prepared electronically using a variety of computer applications, as Encapsulated Postscript files. Make sure that the image, when printed, is of high quality. To include figures in Latex, a construction of the form

```
\begin{figure}[htbp]
\includegraphics[width=xcm]{file_name.eps}
\caption{}
\label{name}
\end{figure}
```

should be used. Figures may be centred using the `\begin{center}... \end{center}` construct within the figure environment.

REFERENCES

References

- [1] D. R. Stump, “How to write a LaTeX paper”, 2000.