

## THE TITLE OF THE ARTICLE

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**Abstract.** *The abstract should provide a concise summary of the work. It must clearly articulate the research objectives, the methodology employed, the principal findings, and the scientific significance of the results.*

### I. INTRODUCTION

This document serves as both a template and a set of guidelines for authors preparing manuscripts for the Proceedings of the Vietnam Conference on Theoretical Physics using  $\text{\LaTeX}$ . Authors who are not familiar with  $\text{\LaTeX}$  are encouraged to consult standard references such as [1, 2].

### II. MANUSCRIPT PREPARATION

#### II.1. Manuscript Formatting

All manuscripts must be written in English. The page limit is strictly **10 pages** for invited contributions and **6 pages** for regular papers. These limits are inclusive of all figures, tables, references, and any appendices.

Manuscripts must be prepared in  $\text{\LaTeX}$  utilizing the ‘cpro.cls’ class file provided by the conference. The use of custom or non-standard style files is strongly discouraged. If external style files are essential for the manuscript, they must be submitted alongside the source files. The template package, including ‘sample.tex’ and ‘cpro.cls’, is available for download from the official Vietnam Conference on Theoretical Physics website.

Formatting parameters such as page size, margins, line spacing, and font sizes are predefined within the class file and must not be altered. The main title (section) is written in uppercase using the Latex command `section\{MAJOR TITLE\}`, while the subsection is written in lowercase using the command `subsection\{Subheading\}`.

For compiling the  $\text{\LaTeX}$  source, standard distributions such as MiKTeX [3] or TeX Live, in conjunction with an editor like TeXmaker [4], or cloud-based LaTeX editor Overleaf [5] are recommended. The ‘cpro.cls’ file should be placed in the same directory as the main ‘.tex’ source file to ensure proper compilation.

## II.2. Mathematical Equations

The ‘equation’ environment should be used for displayed mathematical equations that require automatic numbering. For unnumbered equations, the ‘equation\*’ environment is appropriate. To facilitate cross-referencing, it is imperative that all numbered equations are assigned a unique label via the `\label{...}` command.

For example, the Hamiltonian for an electron is given by:

$$H = E_g + \frac{\vec{p}_e^2}{2m_e^*} + V_{\text{conf}}(\vec{r}_e) , \quad (1)$$

where  $m_e^*$  is the effective mass of the electron in the semiconductor.

Another equation, defining the parameter  $\alpha$ , is as follows:

$$\alpha = \frac{\beta\gamma}{\lambda} \int_0^\infty f(x)dx . \quad (2)$$

To refer to a formula, we use its ”label” in the LaTeX command `\ref{label}`. For example, the following LaTeX sentence:

*“Note the comma in the formula (`\ref{energy}`) and the period in the formula (`\ref{alpha}`) will give us the following output:*

*“Note the comma in the formula (1) and the period in the formula (2)”.*

## II.3. Citations and References

The reference list should be compiled within the ‘thebibliography’ environment at the end of the manuscript. Entries must adhere to the following format for journal articles: Authors, *Journal Title* **Volume** (Year) Page. For example: [6].

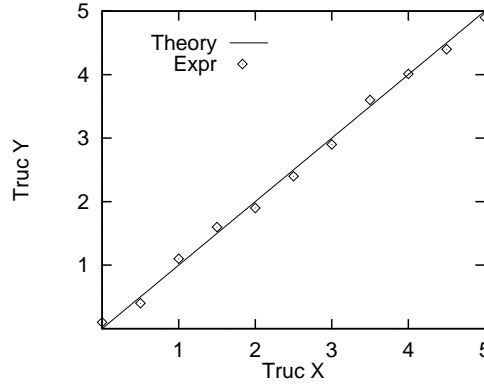
Each reference should be marked with a word, for example the above reference is marked with the author’s name {Quang} written in LaTeX as follows:

`\bibitem{Quang}` N. H. Quang, S. Ohnuma, A. Natori, `{\it Phys. Rev.B}` `{\bf 62}` (2000) 12955. In-text citations are generated with the `\cite{}` command. Multiple sources can be cited within a single command, separated by commas (e.g., `\cite{Lamport, Texmaker, Quang}`), which will produce a consolidated reference, such as [1, 4, 6].

## II.4. Figures and Table

All figures must be of high resolution and embedded within the manuscript. Supported image formats include PDF, PNG, PS, and EPS. Figures should be placed within the ‘figure’ environment, assigned a label with `\label{...}` for cross-referencing (e.g., Fig. 1), and must include a descriptive caption using the `\caption{...}` command.

Similarly, tables should be enclosed in a ‘table’ environment and include a caption and label.



**Fig. 1.** An example figure caption. Theoretical results are shown as solid lines, while experimental data are represented by discrete points. Adapted from [7].

### III. CONCLUSION

This document has provided a comprehensive overview of the formatting guidelines for preparing manuscripts for the Proceedings of the National Theoretical Physics Conference, is essential for all submissions.

The subsequent sections provide templates for the Acknowledgment and References sections. Should an appendix be necessary, it should be initiated with the `\section*{Appendix}` command, which will create an unnumbered section heading.

### ACKNOWLEDGMENT

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### REFERENCES

- [1] Leslie Lamport, *LaTeX: A document preparation system. User's guide and reference manual*, 2nd edition, 1994 Addison-Wesley.
- [2] <http://en.wikibooks.org/wiki/LaTeX>
- [3] <http://miktex.org/2.9/setup>
- [4] <http://www.xmlmath.net/texmaker/download.html>
- [5] <https://www.overleaf.com/>
- [6] N. H. Quang, S. Ohnuma, A. Natori, *Phys. Rev.B* **62** (2000) 12955.
- [7] N. H. Quang, unpublished (2008)