INP Journal of Physics 2022, **\***(\*), \*\*-\*\*

Article title

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**Abstract**

The abstract should be a total of about 200 words maximum. The abstract should be a single paragraph and should follow the style of structured abstracts, but without headings: 1) Background: Place the question addressed in a broad context and highlight the purpose of the study; 2) Methods: Describe briefly the main methods or treatments applied. Include any relevant preregistration numbers, and species and strains of any animals used. 3) Results: Summarize the article’s main findings; and 4) Conclusion: Indicate the main conclusions or interpretations.

**Keywords:** term; term; term

# Introduction

The introduction should briefly place the study in a broad context and highlight why it is important. It should define the purpose of the work and its significance, including specific hypotheses being tested. The current state of the research field should be reviewed carefully and key publications cited. Please highlight controversial and diverging hypotheses when necessary. Finally, briefly mention the main aim of the work and highlight the main conclusions. Keep the introduction comprehensible to scientists working outside the topic of the paper.

# Paper Preparation

A manuscript should contain the text in the LaTeX or Word formats and files of figures. All pages should be numbered, and the manuscript must include all necessary elements of the paper. The first page of the manuscript should include the title of the paper, the initials, surnames and affiliations (including country, city, zip code, and address for correspondence) of all the authors followed by the short abstract. At least one of the authors should provide an e-mail address for correspondence. PACS indexes may be indicated (see <http://www.aip.org/pacs)> after the abstract.

In formulas, all roman letters denoting physical quantities should be italicized E, V, m, etc.). Vectors must be in bold type without arrows over the letters. Functions (sin, arcsin, sinh, etc.), conventional mathematical abbreviations ( max , min , opt, const, idem, lim, log, ln, det, exp), chemical elements (Cl, Fe), etc., should be in roman type. With the exception of abbreviations including those of surnames, which must be in roman type, letters in sub- and superscripts should be in lowercase italics. Below we have numbered single-line equation:

*f* (*x*) = *a*0

*∞*

*n*=1

+ Σ

(*an*

*nπx*

*cos* + *bn L*

*sin* )*.* (1)

*L*

*nπx*

Figures must be clearly readable and of good quality. It is desirable to submit each figure in the form of an individual file in the Encapsulated PostScript (\*.eps) or in the Portable Network Graphics (\*.png) formats. Raster artwork should be at least 300 dpi at 100% (Full print size). If a color figure is submitted, please, make sure to upload in addition a usable black and white version required to correctly reproduce the artwork in print.

Cited references must be given in a general list at the end of a manuscript and should be numbered by the consecutive numerals as they are mentioned in the main text. The list of references must have the heading References. All references should include *full list of authors* with only exception being collaboration papers. All Figures and Tables should be inserted into the main text close to their first citation and must be numbered following their number of appearance (Figure 1,

Figure 2, Table 1, etc.). All Figures and Tables should have a short explanatory title and caption.

In the text, reference numbers should be placed in square brackets [ ], and placed before the punctuation; for example [[1](#_bookmark0)], [[1](#_bookmark0), [2](#_bookmark1), [3](#_bookmark2)] or [[3](#_bookmark2), [4](#_bookmark3)]. SI Units (International System of Units) should be used.

Test Figure

Figure 1: Figure caption

# Results and discussion

Provide a concise and precise description of the experimental results, their inter- pretation as well as the experimental conclusions that can be drawn.

Authors should discuss the results and how they can be interpreted in perspec- tive of previous studies and of the working hypotheses. The findings and their implications should be discussed in the broadest context possible and limitations of the work highlighted. Future research directions may also be mentioned. This section may be combined with Results.

Table 1: This is a simple table. Table captions are numbered automatically.

|  |  |  |  |
| --- | --- | --- | --- |
| N | 1 | 2 | 3 |
| A | 10 | 20 | 30 |
| B | 40.0 | 50.0 | 60.0 |

Table 2: This is a wide table that spans the page width in twocolumn mode. It is formatted using the table\* environment. It also demonstates the use of

\multicolumn in rows with entries that span more than one column.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ion | *D*1  1st alternative | *h*  2nd alternative | *D*5  4*h*  lst alternative 2nd alternative | |
| K | (2*e*) + (2*f* ) | (4*i*) | (2*c*) + (2*d*) | (4*f* ) |
| Mn | (2*g*) | (*a*) + (*b*) + (*c*) + (*d*) | (4*e*) | (2*a*) + (2*b*) |
| Cl | (*a*) + (*b*) + (*c*) + (*d*) | (2*g*)1 | (4*e*)a |  |
| He | (8*r*)a | (4*j*)a | (4*g*)a |  |
| Ag |  | (4*k*)a |  | (4*h*)a |

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# Conclusions

This section is not mandatory but can be added to the manuscript if the discussion is unusually long or complex.

# Acknowledgments

In this section you can acknowledge any support given which is not covered by the author contribution or funding sections. This may include administrative and technical support, or donations in kind (e.g., materials used for experiments).

# A Appendix

To start the appendixes, use the \appendix command. This signals that all follow- ing section commands refer to appendixes instead of regular sections. Therefore, the \appendix command should be used only once—to setup the section commands to act as appendixes. Thereafter normal section commands are used. The heading for a section can be left empty. For example,

\appendix

\section{}

will produce an appendix heading that says “APPENDIX A” and

\appendix

\section{Background}

will produce an appendix heading that says “APPENDIX A: BACKGROUND” (note that the colon is set automatically).

If there is only one appendix, then the letter “A” should not appear. This is suppressed by using the star version of the appendix command (\appendix\* in the place of \appendix).

# References

1. A. R. Barker and S. H. Kettell, hep-ex/0009024;
2. A. Vainshtein, Int. J. Mod. Phys. A **14**, 4705 (1999);
3. NA-31 Collab. (H. Burkhardt *et al.*), Phys. Lett. B **206**, 169 (1988);
4. L. B. Okun, *Leptons and Quarks* (Nauka, Moscow, 1990; North-Holland, Ams- terdam, 1984).