

# THE TEMPLATE OF THE CONTRIBUTION PREPARED FOR PPT JOURNAL AND INSTRUCTION FOR AUTHORS

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**Abstract.** Your abstract should be placed here. Its length should not exceed 500 characters (including spaces). It can be divided into two paragraphs if necessary. It should not contain citations, nonstandard characters, symbols or mathematical formulas. A typical manuscript should not exceed 4 pages including tables, references and captions (10 pages for invited lectures). Each manuscript should contain 3 to 6 keywords.

**Keywords:** ppt journal, template, instructions, another keyword.

## 1. How to use this template

This paper is created as a template for the journal Plasma Physics and Technology. The template contains sections and subsections, figures and tables, and different types of lists, please use the code of all prepared items to create your own ones. You can find instructions how to install and use LaTeX on our website in the submission part.

Use the `\section{Section_name}` command to create a section, `\subsection{Subsection_name}` and `\subsubsection{Subsubsection_name}` commands to create a subsection or a subsubsection respectively.

## 2. Before publication

Paper must be written in proper English and should report previously unpublished work. The authors are responsible for both the content and the style of their contribution. No editing or retyping will be carried out by editors. Accepted contributions will be reduced to A5 and reproduced without modification. Contributions that do not conform to the format described below may be rejected.

Please export the final version of your manuscript as a pdf file and submit both \*.pdf and \*.tex files via the submission form on the journal web site. If you have any pictures in your contribution, please submit them separately in good quality. Please notice that the printed version of the journal is black and white, the on-line version is coloured. Check your pictures and plots for readability in black and white format (i.e. use different line styles – solid, dashed, dotted etc).

The quality of used English will be checked immediately after the paper submission and, if needed, you will be asked for a revision. If your paper formatting contains any unauthorized change of this template it will be returned to you for correction. Afterwards the paper will be reviewed and you will be informed about the process. To manage the review process in time,

we kindly ask you for the full cooperation. Especially, if your help would be necessary, please, try to answer immediately.

You can submit your contribution via our website: <http://www.fsosymposium.cz>.

## 3. The structure of the paper

The paper should contain following sections:

1. Introduction
2. Experimental/Theory/Simulation etc. (e.g. description of: measurement and used experimental methods; theoretical basics of the problem; used model; simulation etc.)
3. Results (and Discussion)
4. Conclusions

and if necessary unnumbered sections Acknowledgments and References.

### 3.1. The title of the paper

This template will capitalize letters in the paper title automatically. The words are more preferred than numbers and symbols. Numbers and symbols can be used only if there is no possibility to express them by words. The title must not exceed two lines.

### 3.2. How to cite the reference

References should be listed at the end of the paper. Use `\cite{cited_reference}` to cite the corresponding reference number. The number and brackets will be added automatically. Use the unique name of each reference to make automatic referring work correctly. In the biblio.bib (see template.zip archive) you can find templates and examples of all different citation types (books, journal articles etc.). Use biblio.bib as a template and edit this template, or use your own file. Remember to call the proper file to use the bibliography correctly.

### 3.3. Authors

Please, write only the first letter of author's first name, as it is shown in the main title of this template. Use prepared commands for correct formatting. The examples of usage are placed at the very beginning of this paper, to make it easier, just edit this template.

Contact information should be completed in order: name of the department (if necessary), name of the institution, street, ZIP code, city, country. The email of the corresponding author should be written inside the `\correspondingauthor` command. The example is provided at the begining of the template source code.

### 3.4. Keywords

Keywords should be written with lower case, only common names of objects, methods etc. can be written with first capital letter. Keywords are separated by comma.

### 3.5. The page header and footer

The page header and footer will be generated automatically by the template.

### 3.6. Numbered and unnumbered lists

Look at the template code of this section to see commands to creation different types of lists. To create a new line inside the list item insert one empty line before of the new line.

Enumerated list:

1. The first item of the first level
  - a. The first item of the second level
  - b. The second item of the second level
    - i. The first item of the third level
      - A. The first item of the fourth level
      - B. The second item of the fourth level
    - ii. The last item of the third level
  - c. The second item of the second level
  - d. The last item of the second level
2. The second item of the first level
3. The third item of the first level
4. The last item of the first level

You can create an unnumbered list with plenty of levels. Look into the code of this template.

- An first item of the first level
  - The first of the second level
  - An item of the second level
    - The first item of the third level
      - The first item of the fourth level
      - The last item of the fourth level
    - The last item of the third level
  - An item of the second level
  - The last item of the second level
- An item of the first level
- The last item of the first level

First col.	Second col.	Third col.
First	Second	Third
First	Second	Third

Table 1. Example of narrow table.

### 3.7. Tables and figures

Papers may include figures and tables. Figures and tables will be numbered automatically. Look into the source code of this template to check how to write labels and captions for both figures and tables.

You should use figures with sufficient resolution for a proper display. Please, use colors which contrast well both on screen and on a B/W hardcopy or use different line styles in plots. Please use proper size of a figure. Note, that final format of the journal is A5, i.e. the template (A4) will be reduced. If the picture/table situated in one column is small after reduction, insert it over both columns.

This template uses float environment to place tables and figures, that is why your figure or table will be placed to the top of the page automatically.

#### 3.7.1. Tables

Tables in LaTeX should be created with the tabular environment, for more information, please check [1] or [2]. See source of this template to view the code to create the Table 1. The table should be centered with the command `\center`. The line `\toprule \toprule` creates two horisontal lines at the top of the table and must always be included. Use `\bfseries` to bold the text in the first row. The command `\midline` creates the horisontal line between inside the table and the command `\bottomrule \bottomrule` displays two bottome lines. These lines must be always included. Use `&` between columns to separate then and `\` to create a new raw.

You can use [3] to generate the code of the table. In the case you will use table generator from [3], please revise the generated table source, compare the source of the generated table source with that of this template and add missing lines. Look at the source code of this template for further information.

Do not write the word Table nor its number into the caption, it will be done automatically. Be sure, each table has unique label within the whole document.

### 3.8. Dimensions and units

Physical units can be typeset like this: The box dimensions are  $5.3 \times 6.5 \times 7.1$  cm. The current temperature is  $75^\circ\text{C}$  with a thin space before the circle, whereas the latitude is  $75^\circ 30' 12''\text{N}$  with no space before the circle and apostrophes. The density of water is  $1000\text{ kg m}^{-3}$ . We can as well write it as  $1000\text{ kg m}^{-3}$ . Look into the source code of the template to see the difference of these two examples. The wave-length of visible light is  $380\text{--}760\text{ nm}$ . This can be written as  $0.38\text{--}0.76\text{ }\mu\text{m}$ . Please use `\,` between the number and its dimensions.

The first column of the wide table	The second column of the wide table
The first column	The second column
The first column	The second column

Table 2. Wide table.

### 3.9. Formulas

Formulas can be written inside the text using \$ signs to start and to finish the formula, e.g.  $c = 3 \cdot 10^8 \text{ m s}^{-1}$ . Don't forget to use \, between the number and dimensions. Use \, inside dimensions to separate them.

You can use different environment to write a numbered formulas. Here you can see an example of a standard equation:

$$\frac{\mathbf{E} \times \mathbf{B}}{B^2} = v_d \quad (1)$$

Use `align` environment to align your formula to the right.

$$\begin{aligned} 300 = & 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 \\ & + 11 + 12 + 13 + 14 + 15 + 16 + 17 \\ & + 18 + 19 + 20 + 21 + 22 + 23 + 24, \end{aligned} \quad (2)$$

can be also written without alignment

$$\begin{aligned} 300 = & 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 \\ & + 10 + 11 + 12 + 13 + 14 + 15 + 16 + 17 \\ & + 18 + 19 + 20 + 21 + 22 + 23 + 24. \end{aligned} \quad (3)$$

More details can be found in Section 3.10. Formulas can be referenced using `\eref{formula_label}` command. The validation can be calculated using (1).

### 3.10. Long formula

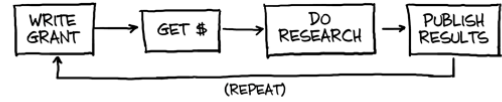
Use `equation` environment and `\split` command to create a long equations.

$$\begin{aligned} \prod_{\alpha=1}^2 \left\{ \Omega_{\alpha}^4 - \Omega_{\alpha}^2 \left[ i \frac{\mathbf{F}_{\alpha}^{(0)} \cdot \mathbf{k}}{m_{\alpha}} + c_{s\alpha}^2 k^2 + \omega_{p\alpha}^2 + \omega_{c\alpha}^2 \right] \right. \\ \left. - \frac{\Omega_{\alpha} \omega_{c\alpha}}{m_{\alpha}} (\mathbf{F}_{\alpha}^{(0)} \times \mathbf{k}) \cdot \mathbf{e}_B \right. \\ \left. + \omega_{c\alpha}^2 (\mathbf{k} \cdot \mathbf{e}_B) \left[ i \frac{\mathbf{F}_{\alpha}^{(0)} \cdot \mathbf{e}_B}{m_{\alpha}} + (c_{s\alpha}^2 k^2 + \omega_{p\alpha}^2) \frac{\mathbf{k} \cdot \mathbf{e}_B}{k^2} \right] \right\} \\ - \prod_{\alpha=1}^2 \frac{\omega_{p\alpha}^2}{k^2} \left[ \Omega_{\alpha}^2 k^2 - \omega_{c\alpha}^2 (\mathbf{e}_B \cdot \mathbf{k})^2 \right] = 0, \end{aligned} \quad (4)$$

For more information about creating formulas in LaTeX see [4].

## THE GRANT CYCLE

HOW IT'S SUPPOSED TO WORK:



HOW IT REALLY WORKS:

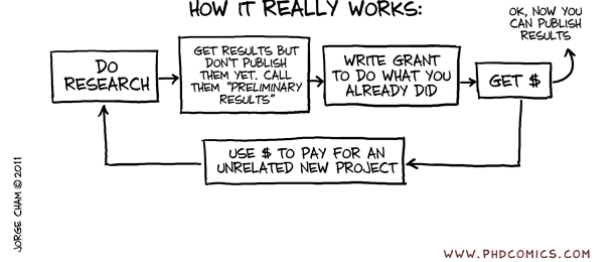


Figure 1. The grant cycle [5]; please note, that the picture size is improper for reduction into A5 format. Example of standard figure.

### 3.11. Figures

For inserting your figures you can use following formats of images: \*.pdf (for curves), \*.png (for spectra, density plots, etc.) and \*.jpg (for photos). It is better to use vector format for figures, especially if you present a plot of your data. If you need to use bitmap images (\*.png or \*.jpg) please use at least 300 dpi.

You have two options for placing a figure:

- One column figure:

One column figure is standard figure for the journal. You can include it by using `\begin{figure}` `\end{figure}` environment. Please notice that the L<sup>A</sup>T<sub>E</sub>X may place the figure on another page than you want to, editor will arrange all figures due to the typography rules during the finalization of your manuscript. For the details, how the figure is included, see the source code.

- Two column figure:

In the case of much wider figure you can use `\begin{figure*}` `\end{figure*}` environment to place the figure across both columns.

## 4. Here you can see the example of a longer text with lists

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

1. Praesent hendrerit justo orci, dapibus rhoncus

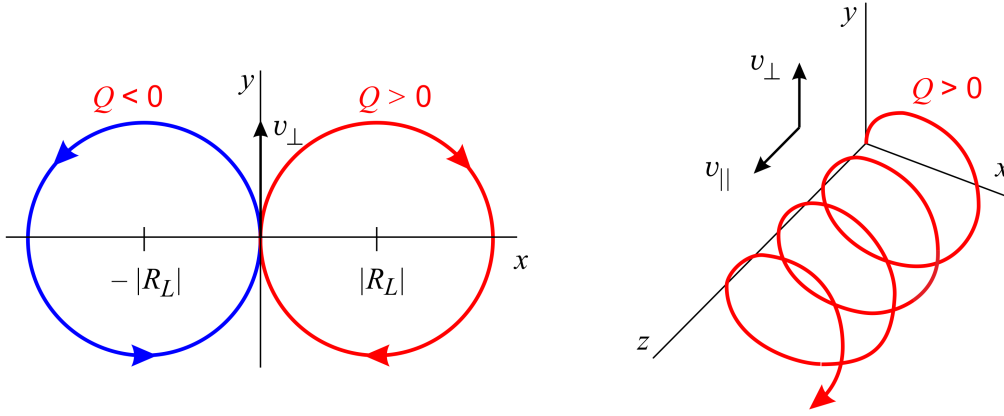


Figure 2. Example of wide figure.

enim dapibus non. Sed dictum nunc tellus, sed tristique lacus porttitor ut. Integer dignissim lacus vitae finibus pharetra. Maecenas sodales viverra erat a ultrices. Phasellus fermentum auctor massa, et accumsan massa. Nulla tristique odio orci, eu ultricies justo ornare in. Quisque sed tristique velit. Proin tincidunt lacus nec dictum congue.

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## 5. Conclusions

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## Acknowledgements

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