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LaTeX template and guidelines for preparing the manuscript of the invited talks

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This is the sample file using LaTeX style for submitting the manuscript of Invited Talks. The sample file for the Contribution(s) and Thesis work are available separately. An equivalent MS Word (*.doc file) version of the template is also available in the website for submission of manuscript. The manuscript of the invited talk should be of 2 pages of this style. The LaTeX format which has been chosen here mostly matches with that of Physical Review C format. The sample file from the aps website has been downloaded and modified so as to conform to our Symposium proceeding.

1. Introduction

DAE Symposia on Nuclear Physics covering a wide range of topics [**?**] are conducted annually. The aim of this series of symposia has been to provide a scientific forum to the nuclear physics community to present their research work and to interact with the researchers in this area.

This is a LaTeX template for preparing the manuscript of the invited talks. An equivalent MS Word (*.doc file) version of this template is also available in the website. The bound volume of the symposium proceedings [**?**] will be distributed during the symposium. The manuscript (within 2 pages), strictly in the form of this template, should be submitted in the website before the deadline. Only the pdf version of the paper should be uploaded in the website. No hardcopy or email submission is acceptable. While submitting the paper, please mention the category of the topic under which your paper belongs.

Format of the Template

The LaTeX format which has been chosen here is very similar to that of Physical Review C format. Very few changes have been made in this format, e.g., in the sizes of the titles, authors, headings, textwidth, textheight, etc. The sizes of the 'title' and the 'authors' are made larger using the command `\Large{Title}` and `\large{author}` respectively.

2. Figures and Tables

As the proceedings print will be in monocolor, all necessary figures, plots, spectra etc. have to be in black and white or grayscale with a good contrast so that good reproduction can be obtained. Following are the two ways to incorporate images into your LaTeX document.

1. Include only PDF, PNG and JPEG images and use pdflatex, TeXShop, or other PDF-oriented compiler. The compiler pdflatex (unix/ winshell) and TeXShop (Macintosh) convert LaTeX source directly to PDF, and do not accept PostScript images. Instead, they take PDF images, as well as bitmap pictures in PNG or JPEG format. So to use pdflatex, you must convert any PostScript images to one of these other forms. For photos, JPEG is best. For other bitmap images, PNG is best. For non-bitmap images (e.g., graphs, drawings, stuff with text and symbols) it is best to convert to PDF, using

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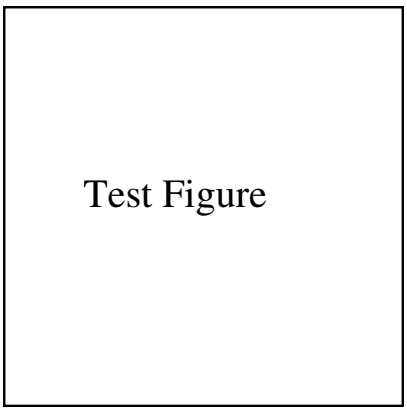

FIG. 1: A figure caption. The figure captions are automatically numbered.

the command epstopdf (in the usual TeX bin directory, e.g., /usr/local/tex/bin/epstopdf). With PNG or JPEG you should specify an explicit width or height rather than "scale".
2. Include only PostScript images (esp. "Encapsulated PostScript") if your goal is a PostScript document using dvips. Then you must compile the document with latex followed by dvips -Ppdf, which produces a PostScript document with embedded PostScript images. You can convert the PostScript document to PDF using "ps2pdf" or "dvipdf".

Fig. **??** shows a figure that is small enough to fit in a single column. It is embedded using the `figure` environment which provides both the caption and the imports of the figure file.

The size of the figures and tables should not exceed the column width else it can be in two column width. When the figure is too wide for a single column, then use the `figure*` environment instead. Similarly for wide table one has to use `table*` environment.

3. Math and Equations

Below we have numbered single-line equations; these are the most common type of equations in *Physical Review*:

$$\sigma = \pi R^2. \tag{1}$$

TABLE I: This is a table which fits properly in a column. Note that several entries share the same footnote. Inspect the LaTeX input for this table to see exactly how it is done.

	r_c (Å)	r_0 (Å)	κr_0		r_c (Å)	r_0 (Å)
Cu	0.800	14.10	2.550	Sn[a]	0.680	1.870
Ag	0.990	15.90	2.710	Pb[b]	0.450	1.930
Au	1.150	15.90	2.710	Ca[c]	0.750	2.120
Mg	0.490	17.60	3.200	Sr[d]	0.900	2.370
Zn	0.300	15.20	2.970	Li[b]	0.380	1.730

[a]Here's the first.
[b]Here's the second.

$$\chi_+ \lesssim [2|\mathbf{p}|(p_z)]^{-1/2} \begin{pmatrix} |\mathbf{p}| + p_z \\ px + ip_y \end{pmatrix} . \tag{2}$$

$$\left\{ \mathbb{1}290ab13\alpha\beta\gamma\delta1256\alpha\beta \frac{1\sum_b^a}{A^2} \right\}. \tag{3}$$

Note the open one in Eq. (**??**).

Unnumbered single-line equations can be typeset using the `\[, \]` format:

$$n + p \to d + \gamma \ , \quad n + d \to t + \gamma \ .$$

4. General Guidelines

Once the paper is written as per the format either in MS Word or in LaTeX it should be converted to a pdf file. In the authors' list, in case of a large collaborative experiment it is advised to mention the name of the collaboration and spokesperson's email address instead of the complete list of authors. For references also, the name of collaboration or only the "first author, et al." style can be adopted.

Acknowledgments

We thank you for your co-operation in using this template for production of camera ready manuscript.

References

[1] Announcement Poster and Website, DAE Symp. **vv**, ppp (yyyy).
[2] DAE Symp. on Nucl. Phys. **vv**, ppp (yyyy).