

An Extended Abstract for the conference 'Particle Simulations'

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Here we describe the format and preparation of extended abstracts for the the conference 'Particle Simulations', Erlangen, Sept. 2015. All participants presenting a talk or poster are asked to submit an abstract prepared in L^AT_EX via email to `conference-particulate-systems@fau.de`. Abstracts will be typeset in a format that closely follows that of Physical Review Letters. The maximum length is one full page (size DIN A4 with text dimensions 260 mm × 170 mm).

To prepare the abstract, use this template file, which you can examine to figure out the L^AT_EX commands being used. Below are some remarks on what you should keep in mind when preparing the abstract. As a rule, follow the Physical Review guidelines. Do not change the document class `erlangen` used in the template; this is simply a wrapper around RevTeX 4.1 which you will need to have installed. It is part of the major L^AT_EX-distributions that we know of. If in doubt, consult the RevTeX home page, <https://authors.aps.org/revtex4/>. You will need to do the following:

- Replace the sample title by your own, in the `\title` command.
- Replace the author list, by adding each author with her or his own `\author` command, followed by `\affiliation` for the affiliation address. If several authors share the same affiliation, either just give `\affiliation` after the last author, or repeat the same `\affiliation` command after every author.
- After the first, or in general after the corresponding author, include a `\correspondingauthor` command and give as its parameter the corresponding e-mail address.
- Replace this sample text! You may include figures, equations as you desire. Also, we explicitly ask you to include references, in particular to recent relevant work of yours, but also to general literature that is relevant for your topic.

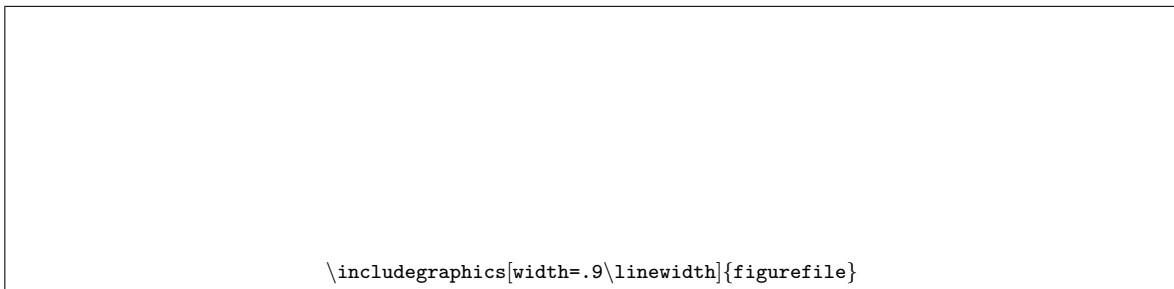


FIG. 1. This box demonstrates the inclusion of figures. Note that in the `\includegraphics` command, the file name should be given just as the base name, without a `.eps`, `.pdf`, `.png`, or `.jpg` ending. Make sure that your figure file names have these suffixes in lower-case letters and contain no space characters.

Figures can be included using the `graphicx` package; for references to figures use the format Fig. 1. If you are using standard `latex` to compile the template, use encapsulated PostScript (EPS) figure files. You can also use `pdflatex` to produce PDF output, in which case you can include PDF, PNG, and JPEG images. Use EPS/PDF for all line-art graphics and diagrams, and PNG/JPEG only for photographs or graphics that don't need to be scaled.

Equations can be typeset as in standard RevTeX,

$$\phi(\omega) = \int e^{i\omega t} \phi(t) dt. \quad (1)$$

References to equations use the format Eq. (1).

Include citations into the L^AT_EX file as demonstrated below. The style should match the one used in Physical Review Letters for articles [1], books [2], proceedings articles [3]. If you want to use BibTeX to keep track of

references, you need to include the resulting `.bbl` file into this `.tex` file at the end and make sure that running `LATEX` on the `.tex` file alone produces the desired result.

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- [1] J. Filser and L. Thoma, *Z. Phys* **193**, 384 (1966).
- [2] M. D. Rich, *A Million Random Digits* (RAND Corporation, Santa Monica, CA, USA, 2001).
- [3] A. First, B. Second, and C. Third, in: *Proceedings of Some Important Conference*, edited by E. Editor (Publisher, Address, 2009), pp. 666–999.