

GTP Workshop on
**Modeling MHD Turbulence; Applications to
Planetary and Stellar dynamos**
at NCAR, 27-30 June, 2006, Boulder, CO, USA

How to prepare the extended abstract for the GTP Workshop

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This is a template of LaTeX2e format for the extended abstract for

GTP Workshop on
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at the National Center for Atmospheric Research(NCAR),
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[Technical notes]

- (1) Regular LaTeX2e format is used without any style file. If you have any problems with LaTeX(2e), or if you need assistance for preparation, please contact us.
- (2) The format of the title section of your paper including author's name(s), affiliation(s), and address(es) is prescribed in the preamble at the head of this file. Please **DO NOT CHANGE** the preamble.
- (3) To input the title, name(s) and affiliation(s), change texts between the dotted lines starting with %=%=%. .
- (4) Follow the instructions below to insert (eps) figure files and to write references.
- (5) The printed pages should not exceed two. This abstract will be printed in the *abstract book* which will be distributed at the workshop.
- (6) Send the LaTeX file, eps figure files (if you insert figures) and the pdf file to Liz Rothney at **rothney@ucar.edu** no later than **1 June** by email.

[About the contents]

One of the objectives of the GTP workshops is to bring together scientists from many disciplines in a forum. So we expect to have various participants with a wide spectrum of interests and expertise including graduate students and post-docs. In order to make the workshop exciting and fruitful even for non-experts, we would like to request the participants to prepare the abstracts (as well as talks) to be expository and illuminative for them. We believe that clear statements of the motivation and the problem are vital for better communication among participants.

[Some examples]

Equations: Equations with or without equation number can be written respectively as

$$\frac{\partial \mathbf{u}}{\partial t} + \mathbf{u} \cdot \nabla \mathbf{u} = -\nabla p + \nu \nabla^2 \mathbf{u}, \quad (1)$$

$$\frac{\partial \omega}{\partial t} + J(\omega, \psi) = \nu \nabla^2 \omega$$

Equation (1) may be written in a text line as $\partial \mathbf{u} / \partial t + \mathbf{u} \cdot \nabla \mathbf{u} = -\nabla p + \nu \nabla^2 \mathbf{u}$. When you have to write multi-line equations with or without equation numbers, one of the ways is to use the “eqnarray” environment. For example,

$$\begin{aligned} (\partial_t - \nu \nabla^2) \mathbf{u} &= -\mathbf{u} \cdot \nabla \mathbf{u} - \nabla p + \theta \hat{\mathbf{z}} + 2\Omega \hat{\mathbf{z}} \times \mathbf{u}, \\ (\partial_t - \kappa \nabla^2) \theta &= -N^2 w - \mathbf{u} \cdot \nabla \theta. \end{aligned} \quad (2)$$

Figures: If you have your figures in Encapsulated PostScript (eps) format, it is easy to include in the text. Mac users may have to go to Typeset and choose “Tex and Ghostscript”. For example, if you wish to insert a figure, please use the following “figure” environment. In particular for one figure,

Sometimes you may wish to insert two figures side by side. The easiest way to do that is to use the “minipage” environment.

Figure 1: *Caption for Figure 2 in left column*

Figure 2: *Caption for Figure 3 in the right column*

If you use the minipage environment, you can also write texts in one of the minipage to save space, in lieu of the second figure.

References: If you cite a journal paper, a proceedings paper or a book, write text as a journal paper [1], a proceedings paper [2], or a book [3]. Here, for example, `\cite{journal-1}` means the number of the item specified in the following thebibliography environment as `\bibitem{journal-1}`.

References

[1] J. Smith, J. Doe and K. Jones 2005. *Title*, JournalName **123**, 456 – 789.

[2] J. Smith, K. Jones and J. Doe 2004. *Title, Proceedings name (like Proc. IUTAM Symp. ...)* (Publisher) 123 – 456.

[3] J. Doe 2005. *title* (Publisher).