

Cover Page

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22nd International Toki Conference (ITC-22)

Cross-Validation of Experiment and Modeling for Fusion and Astrophysical Plasmas

Abstract Number:	0000
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Paper Title:	A Sample T_EX Manuscript for 22nd International Toki Conference (ITC-22)
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Topic Category:	0
LIST OF TOPICS <ol style="list-style-type: none">1. Validation of modeling in fusion research2. Numerical simulation and observation in astrophysical plasmas3. Transport (modeling, experiment and observation)4. Reconnection (theory, simulation, experiment and observation)5. Interaction between energetic particles and waves in plasmas6. Plasma-wall interaction (modeling, experiment and observation)7. Plasma diagnostics for cross-validation8. Atomic processes in laboratory and astrophysical plasmas9. Scientific visualization	

A Sample T_EX Manuscript for 22nd International Toki Conference (ITC-22)

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The International Toki Conference (ITC) is an international conference for the presentation and discussion of research activities related to nuclear fusion and plasma sciences. It has been held annually by the National Institute for Fusion Science in Toki City since 1989. The purpose of this year's conference is to discuss the validation of theoretical models and simulations by experiments and the interpretation and prediction of experimental data by models. It covers mutual-interaction of theory/simulation and experiment/observation in fusion and astrophysical plasmas. Development of new diagnostics, atomic processes and scientific visualization are also covered.

Keywords: about five keywords or phrases separated by commas

1 Introduction

The International Toki Conference (ITC) is an international conference for the presentation and discussion of research activities related to nuclear fusion and plasma sciences. It has been held annually by the National Institute for Fusion Science in Toki City since 1989.

2 Scope

The purpose of this year's conference is to discuss the validation of theoretical models and simulations by experiments and the interpretation and prediction of experimental data by models. It covers mutual-interaction of theory/simulation and experiment/observation in fusion and astrophysical plasmas. Development of new diagnostics, atomic processes and scientific visualization are also covered.

LIST OF TOPICS

1. Validation of modeling in fusion research
2. Numerical simulation and observation in astrophysical plasmas
3. Transport (modeling, experiment and observation)
4. Reconnection (theory, simulation, experiment and observation)
5. Interaction between energetic particles and waves in plasmas
6. Plasma-wall interaction (modeling, experiment and observation)
7. Plasma diagnostics for cross-validation
8. Atomic processes in laboratory and astrophysical plasmas
9. Scientific visualization

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Category (1) includes fusion engineering and reactor studies (modeling, experiment and observation). English is the working language of the conference.

3 Conference Place and date

22nd International Toki Conference will be held from November 19-22, 2012 at "Ceratopia Toki", 4 Tokitsu-Takayama, Toki 509-5121, Gifu, Japan.

4 Registration

The principal author must be a conference registrant. All registrations (other than abstract submission) will be made through the conference web site (<http://itc.nifs.ac.jp/>). All attendees are requested to register by October 15, 2012. The registration fee is 20,000 JPY (15,000 JPY for students). The registration fee includes:

1. Access to all sessions of the scientific program
2. An abstract booklet
3. Coffee break refreshments
4. Conference banquet

The registration fee is payable at the conference site (only by cash in Japanese yen). *Note: Payment of the banquet fee is mandatory regardless of attendance, however a separate receipt for the registration fee excluding the banquet fee can be obtained on request.

5 Paper submission

The papers presented in the conference can be submitted to Plasma and Fusion Research
0000-01

Figure

Fig. 1 Sample figure. Letters in figures must be sufficiently large.

(<http://www.jspf.or.jp/PFR/>) that is an electronic journal published by the Japan Society of Plasma Science and Nuclear Fusion Research. The papers go through all the peer-review process, and those accepted will be published as regular papers in the academic journal, PFR. Detailed information will be posted on the conference web-site once it is available.

6 Paper preparation

The articles intended to be published in regular article section of the Plasma and Fusion Research (PFR). The length of the manuscript must not exceed 4 pages in contributed paper and 8 pages in invited paper. The paper size must be A4 (21.0 cm × 29.7 cm).

Authors using \LaTeX should use the `pfr` package provided by the program committee of ITC-22:

```
\usepackage{pfr_itc22}
```

Text should be typeset in Times. The title should be in Times Bold. These fonts can be accessed by using either the standard `times`, `mathptmx` or recent `txfonts` package, as in

```
\documentclass
  [a4paper,twocolumn,fleqn]{article}
\usepackage{amsmath} % optional
\usepackage{txfonts} % or times
\usepackage{graphicx} % optional
\usepackage{pfr_itc22}
\begin{document}
...
```

The default Computer Modern fonts may be used as a last resort.

The document should be submitted in PDF format (or PostScript format). Any fonts other than the standard PostScript fonts (such as Times and Symbol) must be embedded in the document, and don't use national (e.g. Japanese) fonts.

The manuscript must include a concise abstract (less than 200 words), a complete list of references, figures and tables with captions. Each author's name is given in the order of first name, initial of optional middle name and last name, as in Carl F. GAUSS. References are cited as [1], [2, 3], and [1, 2, 3], and are listed at the end of the manuscript, *not* preceded by a header such as "References." See also Fig. 1 and its caption.

Equations should be indented by 10 mm from the left margin, as is

$$\tilde{f}(\mathbf{x}, \mu, E) = -\boldsymbol{\rho} \cdot \nabla f_M(\mathbf{x}, E). \quad (1)$$

Vector expressed by a Greek font should be written in Greek Bold; e.g., $\boldsymbol{\rho} = \mathbf{b} \times \mathbf{v}_\perp / \Omega$. For equations separated into multiple lines, the equation number should appear only on the last line.

7 Important dates

Deadline for abstract submission:

August 3, 2012

Notification of abstract acceptance:

August 31, 2012

Deadline for registration:

October 15, 2012

Deadline for paper submission:

November 22, 2012

Conference:

November 19 - 22, 2012

8 Committee

8.1 International advisory committee

A. Komori (Japan, Chair), A. Ando (Japan), H. Azechi (Japan), A. J. H. Donne (Netherlands), T. Hino (Japan), R. Horiuchi (Japan), T. Imai (Japan), S. Ishiguro (Japan), O. Kaneko (Japan), K. Kawahata (Japan), T. Klinger (Germany), G. S. Lee (Korea), A. Mase (Japan), O. Mitarai (Japan), T. Mito (Japan), T. Muroga (Japan), T. Mutoh (Japan), M. Mori (Japan), K. Nishimura (Japan), Y. Ogawa (Japan), Y. Ohsawa (Japan), A. Sagara (Japan), F. Sano (Japan), M. Sasao (Japan), Y. Takeiri (Japan), W. Tang (U.S.A.), M. Tendler (Sweden), H. Yamada (Japan), M. Zarnstorff (U.S.A.), H. Zushi (Japan)

8.2 Program committee

M. Sasao (Chair), A. Mase (Vice-chair), A. Fukuyama, K. Ida, S. Ishiguro, N. Iwama, R. Kanno, Y. Kishimoto, S. Ohdachi, Y. Ono, B.J. Peterson, H. Shiraga, S. Tsuneta

8.3 Local organizing committee

K. Kawahata (Chair), S. Sudo (Co-chair), Y. Nagayama (Scientific Secretary), T. Akiyama, M. Emoto, H. Funaba, M. Goto, N. Hayashi, K. Ida, T. Ido, M. Isobe, A. Ito, S. Iwatsuka, H. Kasahara, K. Mukai, S. Muto, H. Nakanishi, M. Nunami, S. Ohdachi, K. Okada, T. Ozaki, B. J. Peterson, H. Sekiguchi, H. Sakaue, A. Shimizu, C. Suzuki, S. Takayama, T. Taki, N. Tamura, K. Tanaka, I. Yamada, M. Yamanaka, R. Yasuhara, M. Yoshimura, M. Yoshinuma

- [1] M. D. Kruskal and R. M. Kulsrud, *Phys. Fluids* **1**, 265 (1958).
- [2] L. Spitzer, Jr., *Physics of Fully Ionized Gases* (Interscience Publishers, New York, 1959) p. 20.
- [3] S. Tanaka, to be published in *Jpn. J. Appl. Phys.* **22** (1983).