

JOINT MEETING OF THE 3rd IAEA TECHNICAL MEETING ON SPHERICAL TORI AND THE 11th INTERNATIONAL WORKSHOP ON SPHERICAL TORUS

3 to 6 October 2005.

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RUSSIA*

IAEA
International Atomic Energy Agency
www.iaea.org

INTRODUCTION

The JOINT MEETING OF THE 3rd IAEA TECHNICAL MEETING ON SPHERICAL TORI AND THE 11th INTERNATIONAL WORKSHOP ON SPHERICAL TORUS will be held at the Saint-Petersburg State University hosted by the Government of the Russian Federation through the V.I. Zubov Institute of Computational Mathematics & Control Processes, St. Petersburg State University. The local Host representative is Prof. D. A. Ovsyannikov.

The first TCM on Spherical Tori was held at the University of Tokyo (1998) and the second in the National Space Research Institute (INPE), São José dos Campos, Brazil (2001). The previous International STW's were held at Oak Ridge (1994), Princeton (1995), Culham (1996), St. Petersburg (1997), Tokyo (1998), Seattle (1999), Sao Paulo (2001), Princeton (2002), Culham (2003), and Kyoto (2004).

OBJECTIVES

The objectives of the meeting are to contribute to advancing the understanding of spherical tori (ST) and compact toroid (CT) configurations and enhancing their potential for fusion power applications, and to provide a forum for discussion and collaboration enhancement. The scope of the meeting covers the full range of research activities on ST, extended to its interface with other CT fusion concepts; namely, spheromaks and field reversed configurations.

TOPICS

Topical areas of interest include:

- A. Plasma science (experiment and/or theory-computation) of
 - A.1 Plasma current and magnetic flux generation without central solenoid
 - A.2 Macroscopic equilibrium and stability
 - A.3 Microscopic turbulence and energy, particle and momentum transport
 - A.4 Wave-particle-plasma interactions and sustainment of plasma current
 - A.5 Boundary interactions and dynamics
 - A.6 Integrated scenarios for sustained high performance plasmas
- B. Plasma diagnostics
- C. Engineering and Technology Science
- D. Upcoming research plans
- E. Designs concepts and issues for next-stage experiments and facilities
- F. Concepts for future DEMO and power plants

Please indicate on the abstract the topical area(s) of most relevance to your abstract.

MEETING FORMAT

The meeting will consist of invited and contributed oral presentations, poster session, and a summary session.

It is expected that invited talks, will be 30 minutes plus 5 minutes discussion and session talks will be ~20 minutes with ~3 minutes for discussion. Poster sessions shall be used for longer discussions. An overhead projector for transparencies and an electronic projector with a computer capable of reading CD's and memory sticks will be available (Power Point or pdf recommended).

The official language of the meeting is English (no interpretation will be provided). It is expected that the meeting will start at **09:00 on 3 October 2005 and end by 16:00 on 6 October 2005**. A short summary of the meeting, including recommendations, will be presented and approved during the Summary session (last session).

The abstracts will be selected and classified by the International Program Committee into oral and poster presentations.

A number of high quality papers will be selected by the International Advisory and Programme Committees. for submission to NF to appear in a special publication.

FURTHER INFORMATION

Website containing this announcement and updates of the Meeting preparations is open at <http://www.apmath.spbu.ru/iaea>

IMPORTANT DEADLINES

- 10 June 2005** – Submission by email, fax or post of abstracts according to the instructions above for paper selection.
- 10 June 2005** – Submission to the IAEA of Grant Application (Form C)
- 15 June 2005** – 2nd announcement
- 11 July 2005** – Participants will be informed about the acceptance of their papers
- 26 August 2005** – Awards of financial support
- 3 October 2005** – Meeting begins – please bring an electronic word or *pdf* file of your paper to be collected by the IAEA Scientific Secretary.

International Advisory Committee

| | |
|---------------------|--------|
| Martin Peng (CHAIR) | USA |
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Local Organizer Committee

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|---------------------------|---|
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Scientific Secretary

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