



Seventh Coordinated Working Group Meeting for Stellarator and Heliotron Research

About 28 local attendees and 20 remote contributors participated in the Seventh Coordinated Working Group Meeting (CWGM) for Stellarator and Heliotron Research. The workshop was held June 30–July 2, 2010 at Institut für Plasmaphysik (IPP) Greifswald, Germany. The presence of remote participants made it possible to include presentations that significantly contributed to the documentation of data. On the other hand, the specific work and ideas for joint activities benefited greatly from face-to-face discussions. The purpose of the meeting was to align ongoing cooperations and to discuss strategies leading to a more comprehensive intermachine comparison of stellarators/heliotrons. Working sessions to prepare joint papers were held. The two topics being prepared for the forthcoming IAEA meeting — magnetic topology (Narusima et al.) and H-mode studies in three-dimensional (3-D) devices (Hirsch et al.) — have significantly benefited from the intermachine comparison.

A first systematic data assessment of edge turbulence was initiated by a recent EPS paper (Ramisch et al.) describing a new edge turbulence database. Interestingly, this activity found significant contributors from the tokamak community (ASDEX Upgrade, MAST) as well. A promising outcome, which showed the benefit of comparative studies, was that there were indications of universal scaling behavior. And new ideas for follow-up papers have been formulated with the goal of providing a long-term perspective on these studies.

Reports on the progress of MHD databases, high beta, and energetic particle studies were given. A technical session,

in which database issues were discussed also addressed issues related to the comparison of tokamaks and 3-D devices. This activity is intended to link the technical documentation of tokamaks with that of 3-D devices, and is considered to be a step towards comprehensive, concept-independent documentation of fusion devices. Cooperation with International Tokamak Physics Activity (ITPA) working groups has also been covered in a round table discussion, resulting in an agreement to propose reviews on 3-D physics to the chairmen of the ITPA topical groups.



Fig 1. The CWGM venue.

In this issue . . .

Summary of the Coordinated Working Group Meeting for Stellarator/Heliotron Research

The Coordinated Working Group Meeting (CWGM) for Stellarator and Heliotron Research was held at IPP Greifswald at the end of June. 1

20th International Toki Conference

The 20th International Toki Conference (ITC-20) will take place December 7–10, 2010 in Toki, Japan, hosted by the National Institute for Fusion Science. 2

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Following the working sessions, ideas for joint experiments and analysis proposals were discussed, and work-plans were developed. In addition to activities related to the working session, experiments on LHD were described and the status of ongoing activities (field-line measurements, divertor investigations) was reported. Moreover, in response to the successful benchmarking activities conducted by the International Cooperation on Neoclassical Transport Studies (being reported in a joint session with the ICNTS collaboration), proposals for the validation of the neoclassical transport models have been agreed to. For the database activity and the physics documentation of 3-D devices, this intermachine physics study is a new milestone on the way to a comprehensive physics basis of 3-D reactor concepts. The Eighth CWGM will be held in Japan in Spring 2011 (to be announced in *Stellarator News*).

The presentation files are linked to the agenda at www.ipp.mpg.de/~dinklage/agenda.pdf. The required user ID and the corresponding password will be sent to interested colleagues upon request to dinklage@ipp.mpg.de.

A. Dinklage, R. Wolf and M. Yokoyama on behalf of the attendees of the Seventh CWGM

20th International Toki Conference

We are pleased to inform you that 20th International Toki Conference (ITC-20) will take place December 7–10, 2010, in Toki, Japan, hosted by the National Institute for Fusion Science.

Abstracts are not being accepted for consideration and must be submitted by August 31.

Details can be found in <http://itc.nifs.ac.jp/>

We are very much looking forward to having your abstracts and welcoming you at the conference.

If you have any enquiries, please send them to itc20@nifs.ac.jp (Masayuki Yokoyama).

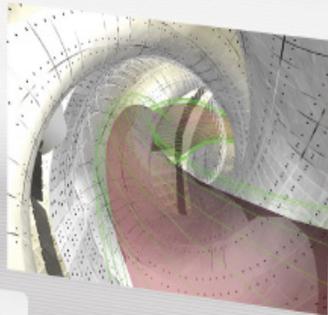
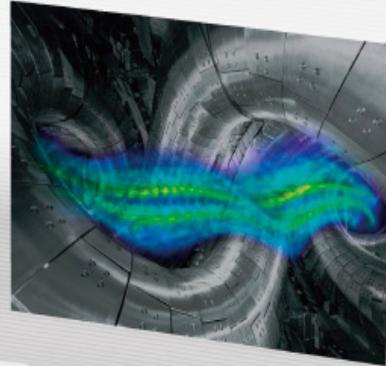
Masayuki Yokoyama
National Institute for Fusion Science
Fusion Theory and Simulation Division
Toki 509-5292 JAPAN
TEL 0572-58-2283
FAX 0572-58-2630
E-mail: yokoyama@LHD.nifs.ac.jp

ITC20 第20回 国際土岐コンファレンス

20th International Toki Conference

The Next Twenty Years in Plasma and Fusion Science

December 7 - 10, 2010
Ceratopia Toki, Toki-City, Gifu, Japan



2030

2010

1998

Topics

- ❖ Prospects for the Next Twenty Years in Plasma and Fusion Science
- ❖ The Leading Edge of Simulation Science
- ❖ Imaging Science
- ❖ Magnetically-Confined Fusion Plasmas
- ❖ Inertial Fusion Energy
- ❖ Fusion Engineering and Fusion Reactor Concepts
- ❖ Space and Astrophysical Plasmas
- ❖ Basic Plasma Research and Plasma Application

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