

Universität Stuttgart

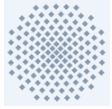


3rd CWGM

International Stellarator/Heliotron Confinement and Profile DataBase (ISH[C/P]DB)

IEA Implementing Agreement of Development of Stellarator Concepts

NIFS, Oct 23-24, 2007



ISHPDB: Initiated at ISW Madrid 2005,

1st : Kyoto University (Sep. 2006)

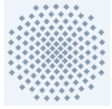
2nd : IPP Greifswald (Jun. 2007)

- (first step) CERC collaboration [2005-] : example of international collaboration in helical systems [IAEA Summary, Chengdu 2006]
- Some of topics have been progressed to the joint papers [IAEA, ITC/ISHW]

Strategic Goals

- Long term:
 - define data basis for system/reactor studies,
 - thorough and critical assessment of data,
 - identification of critical issues for stellarators/heliotrons,
 - comparative physics studies,
 - conclusions for collaborative and comparative experimental studies

...something like ITPA (focusing on *specific issues in helical systems*)



Specific Goals (this meeting)

- short term:
collaboration on hot topics (identified at ITC/ISHW)
- discussions on
 - progress after 2nd CWGM (homeworks)
 - ITC/ISHW \Rightarrow PFR publication (1 month to go,
missing data ?, who will provide ?)
 - workplans in 2008 [targets : IAEA-FEC, EPS, APS etc.,]
(contents, leading author, contact persons)

Output

what, who, when, how ? (specify concretely as much as possible)

- full documentation of data (A. Dinklage and H. Funaba)
- **ideas for presentations in 2008 (IAEA-FEC, and other occasions)**



Topics & Session leaders

presenters@ITC/ISHW

- Technical issues on database – H. Funaba (H.Funaba)
- High beta – A. Weller (A.Weller)
- Effects of iota/shear on confinement (ISHCDB) – D.L.Bruna (E.Ascasibar, A.Dinklage)
- High performance (now being kicked off) – S.Okamura
- Neoclassical transport analysis – H. Maaßberg
- Impurity transport – K. Ida (K.McCarthy)
- Flow and momentum transport – C. Hidalgo
- Edge physics – M. Kobayashi (Y.Feng)
- Transport code development – N. Nakajima
- New issues – K. Nagasaki

(schedule should be flexible depending on discussion)