

9th Steady State Operation ITPA Topical Group meeting
JAEA, Japan, April 10th to April 13th, 2006

MEETING: Conference room 2nd floor, JT-60U control room building

Monday 10th of April 2006

08:00 Bus from Hotel "Terrace"

08:30 Registration

09:00: Start of the meeting: Chair Sips

- Discussion of the agenda and meeting aims G. Sips
- An update on ITER Physics Issues M. Shimada

10:00-10:30 Coffee break

10:30-12:15 Status of joint experiments: Chair Ide

(Mainly SSO-1.1, SSO-1.2, SSO 1.3, SSO-2.1, SSO-2.2, SSO-2.3)

- JT-60U status, plan, recent results S. Ide
- AUG, status, Hybrid studies G. Sips
- Status and Plans for DIII-D T. Luce
- NSTX Long Pulse plans C. Kessel

12:15-13:30 Lunch

13:30-15:30 ITER start-up scenario discussion

- ITER: current rise scenario Y. Gribov
- Summary of DSOL ITPA group limiter discussion T. Luce
- DIII-D: start-up requirements of scenarios T. Luce
- Experiments on start-up scenarios at AUG G. Sips
- TSC simulations of ITER start-up trying to get high q_{min} C. Kessel
- JT-60U: Ip initiation by ECRF with static vertical field (S. Ide)

15:30-16:00 Coffee break

16:00-17:30: Topical studies, Publications: Future Joint experiments

- Pedestal studies: Aims, plan G. Sips
- Hybrids analysis/publication
- MHD analysis/publication
- AT analysis/publication

17:30: End of first day, 18:00 Bus back to Hotel

Tuesday 11th of April 2006

08:00 Bus from Hotel "Terrace"

09:00-10:30: Actuators and modelling: Chair Noterdaeme

- Progress of TASK code in RF modelling A. Fukuyama
- ICRF code benchmarking results for ITER scenario 4 P. Bonoli
- Plans and results thus far for LHCD Code Benchmarking for IAEA 2006 P. Bonoli
- ECCD at ITER: Counter CD with the mid-plane launch. Sips (reporting) discussion
- NBI: What needs to be done by our group?

(Contributions from Oikawa, Zvonkov, Bonoli, ?)

10:30-11:00 Coffee break

11:00-12:15: Various: Chair Suzuki

- Continue actuators and modelling
- Report on preparation for KSTAR Y-S Na
- Evolution of the wall recycling in a long pulse discharges and its impact on core confinement in JT-60U T. Nakano

12:15-13:30 Lunch break

13:30-15:30 Small working groups (separate meeting rooms arranged)

- Meeting of small working groups to discuss tasks and coordination in 2006 (meeting rooms to be announced)
 - (1) RF code benchmarking (Zvonkov, Kessel)
 - (2) Real-time control (Suzuki)
 - (3) Modelling of ITER scenarios (Giruzzi)
 - (4) Joint experiments (Luce)

15:30-16:00 Coffee break

16:00-17:30 IAEA publications: Chair Sips

- LHCD P. Bonoli
- Pedestal (G. Sips)
- Scenario Modelling C. Kessel

17:30: End of second day, 18:00 Bus back to Hotel

Wednesday 12th of April 2006

08:00 Bus from Hotel "Terrace"

09:00-10:30 Modelling of ITER advanced scenarios: Chair Bonoli

- Hybrid and Steady State scenario simulations C. Kessel
- Hybrid guideline for code benchmarking C. Kessel
- TOPICS simulation of ITER steady-state operation N. Hayashi

10:30-11:00 Coffee break

11:00-12:15 Modelling of ITER advanced scenarios: Chair Zvonkov

- ITER advanced scenario simulation using TASK A. Fukuyama
- ITER SS and Hybrid simulations M. Murakami
- Feedback from working group on Tuesday G. Giruzzi

12:15-13:30 Lunch

13:30-15:30 Reports on Plasma control: Chair Giruzzi

- Profile control at JET D. Moreau
- Real time control in JT-60U T. Suzuki
- Using CRONOS to model real time control in DIII-D Luce/Giruzzi
- Use of real time control at ASDEX Upgrade G. Sips

15:30-16:00 Coffee break

16:00-17:00 Reports on Plasma control: Chair Kessel

- *Continued*
- Feedback from working group on Tuesday T. Suzuki

17:00-17:30 High priority research items for SSO group discussion

17:30: End of third day, 18:00 Bus back to Hotel

Evening: dinner with the group

Thursday 13th of April 2006

08:00 Bus from Hotel “Terrace”

09:00-10:30 Reports: Experiments, RF codes, TPB: Chair Ide

- Feedback from working group: Joint experiments T. Luce
- Feedback from working group: RF code benchmarking A. Zvonkov
- **PIPB:** Status and submission

10:30-11:00 Coffee break

11:00-12:00 Final session: Chair Sips

- Final discussion
- Input to FPCC study of SS and PWI
- Actions, summary of the meeting, ITPA-CC
- Next meetings (China, 2007) G. Sips, S. Ide

12:00 Lunch break & End of the meeting

Transport back to Hotel, or airport to be arranged

**28 Participants to 9th Steady State Operation ITPA Topical Group meeting
JAEA, Japan, April 10th to April 13th, 2006**

EU

G. Giruzzi
D. Moreau
J-M Noterdaeme
G. Sips

Japan

K. Hanada
S. Ide
A. Fukuyama
T. Suzuki
Y. Takase
Y. Nakamura
T. Fujita
N. Hayashi
A. Isayama
H. Kubo
T. Nakano
T. Ozeki
Y. Sakamoto
H. Takenaga
T. Takizuka
T. Oikawa (ITER IT)
M. Shimada (ITER IT)

Korea

Y.-S. Na

RF

A. Zvonkov
Y. Gribov (ITER IT)

US

T. Luce,
M. Murakami
P. Bonoli
C. Kessel