Agenda of the 2nd Integrated Operation Scenarios Topical Group Meeting
Naka, JAEA, Naka, Japan, 31st March – 4th April 2009

31st, March 2009 (Tuesday)

8:30 – 9:10  Welcome and logistics
• Welcome                    T. Tsunematsu
• Logistics and announcement
• Check of Agenda: IOS       S. Ide
• Check of Agenda: T&C       S. Kaye

9:10 – 10:20  Opening session
• Introduction               S. Kaye/S. Ide
• L-H power threshold and ELM control techniques: status experiments on MAST and JET
  C. Hidalgo
• ITER issues for ramp-up ramp-down/Simulations of rampup and rampdown in ITER
  similarity discharges in C-Mod    C. Kessel

10:40 – 11:00  Coffee break

11:00 – 12:30  Join session with TP
• TSC Simulation of ITER Plasma Termination Scenario with Stable H-L Mode Transition
  and Avoidance of Radiation Collapse                        Y. Nakamura
• Simulation of ITER current ramp-up scenarios by ASTRA and DINA codes
  V. Leonov
• Recent progress in the analysis and modelling of current ramp up experiments on JET
  I. Voitsekhovitch

12:30 – 13:30  Lunch

13:30 – 15:15  Join session with TP (cont’d)
• ITER ramp-up simulation by TASK code                              A. Fukuyama
• Transport simulation of current ramp-up & ramp-down               X. Litaudon
• Experimental and model validation of ITER operation scenarios     T. Luce
• Plans for modeling startup plasmas using PTRANSP                R. Budny

15:15 – 15:45  Coffee break

15:45 – 17:45  Join session with TP (cont’d)
• Standardized transport model testing: Ip ramp-up in ITER similarity discharges
  D. Mikkelsen
• Status and Plans for ITER integrated modeling                     W. Houlberg
• Planning discussion on JEXs, data access, modeling, metrics
  Plans and status of IOS-2.2                                       S. Kaye/S. Ide
  Transport questions for integrated modeling                        C. Kessel

18:00         Bus to hotel

19:30 –      Reception at Holiday-Inn Hotel
1st, April 2009 (Wednesday)

8:30 – 9:50 Opening session
- ITER High Priority Research Needs  J. Snipes
- Report IEA/ITPA WS (W69)  S. Ide

9:50 – 10:10 Coffee break

10:10 – 12:30 Status of joint experiments reports and planning
- JET contributions to the ITPA IOS joint experiments  G. Sips
- Status and plans of related experiments on ASDEX-Upgrade  J. Stober
- Status and plans of related experiments on DIII-D Report on DIII-D IOS Joint Experiment Activity  T. Luce
- C-Mod Plans for ITPA/IOS Joint Experiments 2009-10  C. Kessel
- Plans and status of IOS-3.2  T. Luce

12:30 – 13:30 Lunch

13:30 – 15:30 Actuators – experiments and modeling
- Plans and status of IOS-4.1  E. Joffrin
- Present Choice of Heating and Current Drive Mix on ITER  J. Snipes
- Comparisons of ITER plasma performance with various mixes of external heating  R. Budny
- ITER heating mix analysis  V. Parail
- Consideration on ITER H&CD systems  A. Tuccillo

15:50 – 16:05 Coffee break

16:05 – 17:45 Actuators – experiments and modeling (cont’d)
- Off-axis Neutral Beam Current Drive experiment in DIII-D  J-M Park
- Analysis of NBCD experiments on JT-60U  T. Suzuki
- High Frequency Fast Wave Current Drive operation on ITER: scenarios, advanced TW Antennae and RF generator  V. Vdovin
- Present Status of ITER H/CD Simulation by the TASK Code  A. Fukuyama

18:00 Bus to hotel
2nd, April 2009 (Thursday)

8:30 – 10:20  ITER scenario modeling and development
• Assessment of NBI and LHRF Actuators for the ITER Scenario 4 Using the ACCOME Code  P. Bonoli
• Update of the ITER Reference Scenarios  A. Polevoi
• TGLF Simulations of DIII-D ITER similarity discharges and an introduction to the TGYRO flux matching turbulence code  G. Staebler

10:45 – 11:00  Coffee break

11:00 – 12:30  ITER scenario modeling and development (cont’d)
• Status of ITER Steady-State scenario modeling  M. Murakami
• ITER Steady State Simulation Benchmark  J-M Park
• Integrated Tokamak Modeling in Russia  S. Konovalov
• Hybrid and Steady-state scenario simulation with TOPICS-IB  N. Hayashi

12:30 – 13:30  Lunch

13:30 – 15:30  ITER scenario modeling and development (cont’d)
• Simulation of Wave Interactions with MHD (SWIM)  D. Batchelor
• Simulation of ITER Steady State Operation Scenarios with ASTRA  Y-S. Na
• New cyclic scenario for ITER steady-state operation  G. Giruzzi
• Free-Boundary Rampup Benchmark  C. Kessel
• F4E actions in the field of Scenario Studies  M. Cavinato
• Update of the ITER Research Plan  S. Ide

15:30 – 15:50  Coffee break

15:50 – 17:45  Discussion on activities of our group
• Work plan
• Action list
• ITER High Priority Research Needs

18:00  Bus to hotel

19:30 –  Group dinner
3rd, April 2009 (Friday)

9:00 – 10:00  Actuators – remaining issues
  • Second Harmonic ECH Pre-ionization Experiments in KSTAR  Y-S. Na
  • Plasma start up experiments on QUEST  K. Hanada
  • Pro/cons on counter-ECCD in ITER  G. Giruzzi
  • Effects of co- and counter-ECCD on improved H-modes in ASDEX Upgrade and implications for the launchers in ITER  J. Stober
  • Open discussion for recommendation

10:00 – 10:20  Coffee break

10:20 – 12:00  Integrated control
  • Identification of the plasma response to NBI actuators in JT-60U from experimental data  D. Moreau
  • Control for ITER scenarios ?  E. Joffrin
  • Open discussion

12:00 – 13:00  Lunch

13:00 – 15:00  Breakout session
  • Joint Experiment
  • Modeling

15:00 – 15:30  Coffee break

15:30 – 17:00  Discussion on activities of our group (cont’d)
  • Report of the breakout session: Joint Experiment  T. Luce
  • Report of the breakout session: Control  E. Joffrin
  • Report of the breakout session: Modeling  C. Kessel
  • Short term Action list
  • Towards next meeting
  • Summary of the meeting
  • Feasibility study of an ECRH system for JET (EC4JET Project)  G. Giruzzi

End of the Meeting

17:15  Bus to hotel

NEXT MEETING: ENEA, Frascati, 20 – 22/23 (TBD), October 2009
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