

8th Meeting of the ITPA Confinement Database & Modeling Topical Group
18-21 April, 2005
Kyoto University
Kyoto, Japan
Version r5, 18 April

General Scheduling Information (A. Fukuyama) and Guidelines for Session Chairs (V. Mukhovatov)

1. One large conference room (for combined session) and four smaller meeting rooms (one for TP, one for PE and two for CDBM) are available.
2. Since the rooms are closed until 9:00 am, the session should start at 9:30 am on the first day (4/18) and at 9:15 on the following days.
3. The lunch time, 12:30-14:00 or 13:00-14:00, is recommended because the university cafeteria is very crowded until 13:00 especially in April, the beginning of a new academic year.
4. The meeting rooms are available until 19:00 on the first three days and 13:00 on Thursday. If you would like to have a session on Thursday afternoon, I will arrange a room somewhere.
5. Each room has a PC projector and a screen. The number of over-head projector is very limited. **Please recommend electronic presentation to the participants.**
6. The information on internet access was added on the web page:
<http://bpsl.nucleng.kyoto-u.ac.jp/itpa2005/>
7. Guidelines for collection of electronic talk copies and generation of session summaries by Session Chairs:
 - (1) Session Chairs are nominated before the Meeting and indicated on agendas.
 - (2) Each speaker is requested to present to the Session Chairman, before or during the Meeting, a Concise Summary of his/her talk (~1/3 page, preferably in .doc format), in addition to an electronic copy of his/her presentation. Electronic copies of talks will also be collected at the meeting by U. Kyoto staff for distribution via web site.
 - (3) Each Session Chair should prepare a summary of his/her Session based on the contents of presentations, summaries of individual talks, and discussions during the Session, and sends it (electronically) to Chair and Cochair of the Group during the Meeting or within 1-2 days after the Meeting.
 - (4) The Chair and Cochair of the Group will prepare the Executive Summary of the Meeting by May 2 and the Minutes of the Meeting shortly thereafter.

Monday, 18 April

09:30-11:20	Joint Introductory Session (Intl Hall III)	A. Fukuyama
09:30	Welcome	Kyoto U
09:35	Transport Physics TG agenda	E. Doyle
09:45	Pedestal TG agenda	Y. Kamada
09:55	Confinement Database & Modeling TG agenda & TPB Update	W. Houlberg
10:05	Paradigm shift in transport theory	K. Itoh
10:35	Current status of Korean fusion program	J-M. Kwon
11:15	Meeting logistics	A. Fukuyama
11:20-11:40	Break	
11:40-12:40	Introductory CDBM Session (Intl Hall III)	W. Houlberg
	Agenda modifications, assignment of summaries	
	TPB status	
	High Priority Research areas for 2006-2007	
	Future meetings (Fall 2005 – St. Petersburg, Spring 2006 – US?, Fall 2006, Chengdu?)	
12:40-14:00	Lunch	
14:00-16:00	Joint CDBM/TP Session on Particle Transport/Density Profile (Intl Hall III)	X. Litaudon
14:00	Unbalanced NBI driven particle fluxes	W. Houlberg
14:20	Electromagnetic particle pinches	J. Weiland
14:45	Density Profile Peaking in JET H-modes	H. Weissen (Weiland)
15:10	Particle transport studies on Tore Supra	F. Imbeaux (?)
15:35	Density profiles of H-mode plasmas in JT-60U	H. Takenaga
16:00-16:30	Break	
16:30-18:30	Joint CDBM/TP Session continued (Intl Hall III)	N. Kirneva
16:30	JET trace T studies	D. McDonald (video) (Cordey/Thomsen)
17:00	Density peaking in H-mode confinement database	M. Valovic (video/Parail)
17:30	Discussion of opportunities for ITPA efforts – collaborative experiments – global and profile analysis, extensions to databases – tests of transport models	

Tuesday, 19 April

09:15-10:55	CDBM/TP/PED Joint Session on Edge Transport (Intl Hall III)	L. Horton
09:15	Understanding the pedestal/edge	A. Leonard
09:35	Status of modeling	V. Parail
10:00	Reconciling database analysis with the dimensionless parameter scans for H and L mode, pedestal and core	G. Cordey
10:25	General discussion of issues, opportunities for ITPA efforts	
10:55-11:15	Break	
11:15-15:45	Joint CDBM/TP/PED continued (Intl Hall III)	M. Becoulet
11:15	Dependence of inter-ELM transport on v^* and ρp^* in JT-60U	H. Urano
11:40	Recent modelling on inter ELM transport using B2/EIRENE	L. Horton
12:05	XGC Study of Inter-ELM Transport	C.S. Chang
12:30	General discussion of issues, opportunities for ITPA efforts	
12:45-14:00	Lunch	
14:00-15:45	Joint CDBM/TP/PED continued (Intl Hall III)	G. Saibene
14:00	Magnetic ripple as a tool for ELM mitigation	V. Parail
14:25	Experiment and modeling of DIII-D, JET, and ITER ELM control by ergodic boundary	M. Becoulet
14:50	Recent progress on ELM control by external coils on DIII-D	A. Leonard
15:05	General discussion of issues, opportunities for ITPA efforts	
15:45-16:15	Break	
16:15-18:30	Global confinement: analysis techniques (Mtg Room II)	A. Chudnovskiy
	Combination of variables in the empirical scalings	A. Chudnovskiy
	AUG contribution to L-mode DB and new Analysis (H-mode, L-mode)	O. Kardaun (video)
	NF publication on DB3	D. McDonald (video, Cordey/Thomsen)
	Modeling: Profile DB status (Mtg Room I)	R. Budny
	Progress in uploading profiles for various JET, TFTR and DIII-D plasmas using the new formalism of Roach & Walters	R. Budny
	Profile DB developments	C. Roach (Budny)
	Discussion of modeling plans to use Profile DB	All
	Options for future emphasis of modeling in ITPA	W. Houlberg
	Discussion of ITPA modeling emphasis	All

Wednesday, 20 April

09:15-11:05	Global Confinement: L-H power threshold (Mtg Room II) New L-H DB New NSTX data submitted to the L-H Threshold DB Power threshold analysis of ETB formation in CHS Numerical investigation of H-mode threshold power by using L-H transition models H-mode power threshold in JFT-2M during 2000-2004 with ferritic wall and boron coating Neural network fits to the JET L-H threshold data; Errors in variable applied to IGDBTH	F. Ryter Y. Martin S. Kaye T. Akiyama R. Hiwatari K. Tsuzuki A. Meakins (Cordey)
	Modeling: ITER simulation (Mtg Room I) Simulation of steady-state operation in ITER Progress on ITER modeling and submissions to the PDB ITER plasma performance assessment on the basis of revised Scalings Development of Global ITG Code on ITBL	N. Hayashi N. Hayashi R. Budny A. Polevoi M. Yagi
11:05-11:30	Break	
11:30-12:40	Global Confinement: NF paper on L-H power threshold (Mtg Room II) Discussion	Y. Martin
	Modeling: NF paper on CD in ITER SS and hybrid scenarios (Mtg Room I) Discussion	W. Houlberg
12:40-14:00	Lunch	
14:00-15:45	Progress on Collaborative Experiments (Spokespersons) (Intl Hall III) CDB-2 (Petty): β degradation – AUG, JET, JT-60U, TS, MAST, NSTX JT-60U experiments and the ITPA database analysis CDB-4 (Snipes): v^* scans at fixed n/n_G – JET, AUG?, C-Mod? New analysis determining which is the most significant confinement parameter, v^* or n/n_G CDB-6 (Kaye): Low A – MAST, NSTX, DIII-D Analysis of NSTX data, and possibly A dependence of full dataset Status on the DIII-D Aspect Ratio experiment with NSTX/MAST CDB-8 (McDonald): ρ^* scaling – AUG, C-Mod, JET Discussion: Review of status of experimental plans, analysis	J. DeBoo T. Takizuka G. Cordey S. Kaye J. DeBoo
15:45-16:00	Break	

Wednesday, 20 April, continued

16:00-18:30	Global Confinement: Databases and publications (Mtg Room II)	K. Thomsen
	Status of the H-mode DB	K. Thomsen
	Preliminary analysis of DB4V1	S. Kaye
	NF paper on β and v^*	G. Cordey
	Discussion of analyses and papers for IAEA H-mode workshop	All
	Status of L-mode DB	F. Imbeaux (Thomsen)
	AUG contribution to the L-mode DB, transition to Cadarache	O. Kardaun (video)
	Modeling: Te/Ti effects (Mtg Room I)	J. Weiland
	Comparison of turbulence models and their dependence on Te/Ti	M. Honda
	Modeling Te/Ti effects at high n in AUG & hot ion mode in DIII-D	J. Weiland
	Te/Ti > 1 in DIII-D	G. McKee (Weiland)

Thursday, 21 April

09:15-10:30	Global Confinement: Working session (Mtg Room II) Discussion, analysis, writing and preparation of summaries	T. Takizuka
	Modeling: Working session (Mtg Room I) Discussions of modeling contributions to NF paper, TPB, other opportunities to publish group work, and preparation of summaries	A. Polevoi
10:30-11:00	Break	
11:00-12:40	Meeting Summaries - 5 min each (Intl Hall III) Introductory session NF paper on ITER SS and hybrid scenarios NF paper on β and v^* NF paper on L-H transition Collaborative experiments Global confinement analysis techniques Modeling Te/Ti effects Profile DB status and plans Joint CDBM/TP Session on particle transport/density profile Joint CDBM/TP/Ped Session on Edge Transport L-H transition ITER simulation Global Confinement: Databases and publications	W. Houlberg Houlberg Houlberg Cordey Martin DeBoo Chudnovskiy Weiland Budny Polevoi Cordey? Ryter Hayashi Thomsen
12:40	Adjourn	