

**Agenda for the 8<sup>th</sup> Meeting of the ITPA Transport Physics Topical Group  
18-21 April, 2005  
Kyoto University  
Kyoto, Japan**

**Version 4.0, April 17, 2005**

**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.
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.

**Room allocations: All joint sessions in “International Hall III”, all TP only sessions in “Meeting Room III,” throughout the meeting**

**Monday, 18 April**

<b>09:30-11:20</b>	<b>Joint Introductory Session</b>	<b>A. Fukuyama</b>
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
11:20	Meeting logistics	A. Fukuyama
<b>11:20-11:40</b>	<b>Break</b>	
<b>11:40-12:40</b>	<b>Introductory TP Session</b>	<b>M. Peng</b>
	Future meetings: St. Petersburg – Oct 2005, US? – Spring 2006	E. Doyle
	Session chair/session summary duties	E. Doyle
	Justification for turbulence diagnostic set for ITER	E. Doyle
<b>12:40-14:00</b>	<b>Lunch</b>	
<b>14:00-16:00</b>	<b>Joint CDBM/TP Session on particle transport/density profile</b>	<b>X. Litaudon</b>
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	J. Weiland for H. Weisen
15:10	Particle transport studies on Tore Supra	? for F. Imbeaux
15:35	Density profiles of H-mode plasmas in JT-60U	H. Takenaga
<b>16:00-16:30</b>	<b>Break</b>	
<b>16:30-18:30</b>	<b>Joint CDBM/TP Session continued</b>	<b>N. Kirneva</b>
16:30	JET trace T studies	Cordey or Thomsen for D. McDonald
17:00	Density peaking in H-mode confinement databas	V. Parail for M. Valovic
17:30	Discussion of opportunities for ITPA efforts	
	– collaborative experiments	
	– global and profile analysis, extensions to databases	
	– tests of transport models	

## Tuesday, 19 April

### 09:15-15:45 CDBM/TP/PED Joint Session on Edge Transport

Time allocations for talks are typically 20+5 min, with some shorter

**L. Horton**

(TP notes, summary, K. Toi)

09:15-09:35	Understanding the pedestal/edge	A. Leonard
09:35-10:00	Status of modeling	V. Parail
10:00-10:25	Reconciling database analysis with the dimensionless parameter scans for H and L mode, pedestal and core	G. Cordey
10:25-10:55	General discussion of issues, opportunities for ITPA efforts	

### 10:55-11:15 Break

### 11:15-15:45 Joint CDBM/TP/PED continued

**M. Becoulet**

(TP notes, summary, V. Parail)

11:15-11:40	Dependence of inter-ELM transport on $\beta^*$ and $\beta_p^*$ in JT-60U	H. Urano
11:40-12:05	Recent modelling on inter ELM transport using B2/EIRENE	L. Horton
12:05-12:30	XGC Study of Inter-ELM Transport	C.S. Chang
12:30-12:45	General discussion of issues	

### 12:45-14:00 Lunch

### 14:00-15:45 Joint CDBM/TP/PED continued

**G. Saibene**

(TP notes, summary, Y. Sakamoto)

14:00-14:25	Magnetic ripple as a tool for ELM mitigation	V. Parail
14:25-14:50	Experiment and modeling of DIII-D, JET, and ITER ELM control by ergodic boundary	M. Becoulet
14:50-15:05	Recent progress on ELM control by external coils on DIII-D	A. Leonard
15:05-15:45	General discussion of issues, opportunities for ITPA efforts	

### 15:45-16:15 Break

### 16:15-18:30 Progress on TP ITPA/IEA International collaborative experiments J. Rice (20 min talks, 5 min discussion)

JET Planning update	X. Litaudon
JT-60U status and plans	T. Fujita
DIII-D	E. Doyle
T-10/TEXTOR	N. Kirenva
NSTX/MAST	M. Peng
General discussion of how to improve/revise proposals for 2006 – 2005 proposals not as successful as they should have been	

## Wednesday, 20 April

<b>09:15-10:25</b>	<b>ITBDB Working Session I</b>	<b>J. Rice</b>
09:15-09:30	Update on invited EPS talk	? for F. Imbeaux
09:30-09:55	Invited H-mode workshop paper on ITB critical issues	X. Litaudon
09:55-10:10	Discussion	
<b>10:10-10:25</b>	<b>Break</b>	
<b>10:25-12 :45</b>	<b>TP/PED Joint Session on QH-mode</b>	<b>E. Doyle</b>
10:25-10:50	QH-mode work in DIIID	A.Leonard
10:50-11:15	QH-mode work in JT-60U	Y.Sakamoto
11:15-11:40	A status report on QH mode work in AUG	L.Horton
11:40-12:05	Transport in a plasma with multi-pellet injection on LHD	K.Ida
12:05-12:35	Discussion of future directions	
<b>12:35-14:00</b>	<b>Lunch</b>	
<b>14:00-16:00</b>	<b>Zonal Flow, GAM Turbulence (20 min talks, 5 min discussion)</b>	<b>V. Mukhovatov</b>
14:00-14:25	Zonal Flow in CHS	A. Fujisawa
14:25-14:50	Zonal Flow and streamers in JIPPT-IIU Tokamak Plasmas	Y. Hamada
14:50-15:15	Experimental study of turbulence and transport on LHD	K. Tanaka
15:15-15:40	Effects of Trapped particles on GAM oscillations	T. Watari
15:40-16:00	General Discussion	
<b>16:00-16:30</b>	<b>Break</b>	
<b>16:30-18:30</b>	<b>Plasma Flow/Momentum Transport &amp; Other (20 min talks, 5 min discussion, Budny 15+5)</b>	<b>T. Fujita</b>
16:30-16:55	Spontaneous toroidal flow in toroidal plasmas	K. Ida
16:55-17:20	Response of toroidal rotation to near-perpendicular NB injection on JT-60U	Y. Koide
17:20-17:45	Recent flow related results from CMOD	J. Rice
17:45-18:05	Preliminary gyro results for momentum transport with two ion species	R. Budny
18:05-1830	Weak temperature dependence of the thermal diffusivity in high collisionality regimes in LHD	J. Miyazawa
18:30-19:00	General Discussion	

## Thursday, 21 April

<b>09:15-18:30</b>	<b>Electron ITBs (20 min talks, 5 min discussion)</b>	<b>D. Mikkelsen</b>
09:15-09:40	On the electron transport barrier formation mechanism	T.S. Hahm
09:40-10:05	Global gyrokinetic simulations of ETG driven turbulence in positive/ reversed shear discharges	Y. Idomura N. Kirneva
10:05-10:30	Electron ITB formation in T-10 reversed shear discharges	N. Kirneva
10:30-10:55	Electron internal transport barriers, rationals and fluctuations in the TJ-II stellarator	C. Hidalgo
10:55-11:15	Discussion	
<b>10:55-11:15</b>	<b>Break</b>	
<b>11:15-12:45</b>	<b>ITBDB Working Session II</b>	<b>T. Fukuda</b>
11:15-11:30	Edge/core correlation and stiffness issues	D. Mikkelsen
11:30-11:45	DB paper for H-mode workshop?	E. Doyle
11:45-12:45	General discussion of future directions, analysis, data needs, etc,	
	<b>Note ITBDB session will continue into afternoon, if necessary</b>	
<b>12:45-14:00</b>	<b>Lunch</b>	
<b>14:00-16:00</b>	<b>Closing Session/Session Summaries by Session chairs (5 min each)</b>	<b>E. Doyle</b>
	ITER impact	V. Mukhovatov
	5 Min summaries by session chairs	
	Any other issues?	
<b>16:00</b>	<b>Adjourn</b>	