

September 28, 2007

**13th Meeting of the ITPA Transport Physics (TP) Topical Group
1-3 October, 2007, JAEA, Naka, Japan**

Local information available at
<http://www-jt60.naka.jaea.go.jp/itpa-07-naka/index.html>

Monday, 1 October

07:30 Bus Departure from Holiday Inn to JAEA ITER conference room

08:30-9:00 Joint Introductory Session (all TGs, ITER Conference Room) Chair Y. Kamada

10	Welcome	<i>M. Kikuchi</i>
05	Introduction	<i>Y. Kamada</i>
05	CDBM meeting introduction	<i>W. Houlberg</i>
05	TP meeting introduction	<i>E. Doyle</i>
05	PEP meeting introduction	<i>Y. Kamada</i>

09:00-10:30 Joint PEP/TP/CDBM Session on Momentum Transport, Issues (ITER Conference Room) Y. Kamada

10	Introduction: Discussion of needs for ITER	<i>Y. Kamada</i>
20	Relations among diffusive and non-diffusive terms of momentum transport and heat diffusivity in JT-60U	<i>M. Yoshida</i>
20	Database on plasma rotation and momentum transport at JET	<i>P. de Vries</i>
20	Steady-state and perturbative momentum transport studies on NSTX	<i>S. Kaye</i>
20	Sensitivity of L-H power threshold to rotation in DIII-D	<i>P. Gohil</i>

10:30-10:45 Coffee Break

10:45-12:40 Joint PEP/TP/CDBM Session, Continued

20	Rotation effects on pedestal & H-mode in JT-60U	<i>Y. Kamada</i>
15	Multi-machine scaling of intrinsic rotation (update)	<i>H. Urano</i>
20	Recent progress in momentum transport theory	<i>J. Rice</i>
10	ITER rotation issues	<i>T-S. Hahm</i>
20	Rotation prediction for ITER	<i>V. Mukhovatov</i>
30	Discussion	<i>Y. Sakamoto</i>

12:40-13:45 Lunch

13:45-15:30 Rotation WG session (TP only, Seminar Room)

Rotation/momentum transport talks not covered in joint session

20	Recent spontaneous rotation results from Alcator C-Mod	<i>J. Rice</i>
20	Intrinsic rotation in DIII-D	<i>P. Gohil</i>

September 28, 2007

20 New developments in momentum transport bifurcation phenomenology

C. McDevitt

Discussion

Discussion of future WG activities and plans, e.g. improvement in ITER predictions

15:30-15:45 Coffee Break

15:45-17:30 Joint TP/CDBM Modeling WG: PDB and NF paper (Large Conference Room)

F. Imbeaux

Status of PDB and NF paper

F. Imbeaux for C. Roach

Proposal for IAEA paper

F. Imbeaux for J. Kinsey

Discussion, other proposals?

17:30 Adjourn

18:00 Bus departure from control building (seminar room and large conference room)

18:30-20:30 Reception at Akogi Club

20:30 Bus to hotel

September 28, 2007

Tuesday, 2 October

08:00 Bus Departure from Holiday Inn to JAEA ITER conference room and control building

09:00-12:15 Progress reports on TP IEA/ITPA Joint Experiments for 2006/2007 and Proposals for TP IEA/ITPA Joint Experiments for 2007/2008 (Seminar Room)

10:15-10:30 Coffee Break

Brief (1-2 VG) Summary of machine run plans for 2008

AUG. L Horton; DIII-D, E. Doyle; JET P deVries; JT-60U Sakamoto/Fujita?; T-10 S. Lebedev

Reports/proposals by/for official experiment spokespersons:

TP/SSO-2.2	D. McDonald
TP-3.1	H. Takenaga
TP-3.2	? for R. Jaspers
TP-4.2	H. Takenaga
TP-5	P. Gohil
TP-6.1	J. Rice
TP-6.2	? for C. Petty
TP-6.3	? for M. Peng
TP-7	? for C. Angioni
TP-8.1	? for M. Peng
TP-8.2	E. Doyle for M. Austin
TP-8.3	Y. Sakamoto
TP-8.4	? for K. Razumova
TP-9	? for C. Petty

12:15-13:15 Lunch

13:15-15:15 ITBDB Working group (Seminar Room)

Proposals for future work, database development (scalar and profile) – please bring your ideas.

To give context to this discussion, G.T. Hoang will present the conclusion slides from his H-mode workshop review talk on “Projections of Transport Barrier Physics to ITER.”

Is there interest in maintaining/utilizing the scalar ITB database?

Future meeting date/locations

E. Doyle

Update on future structure of ITPA

E. Doyle

15:15-15:30 Coffee Break

15:30-17:50 Particle Transport WG, Joint CDBM/TP (Room?)

Density peaking in NSTX

Studies of impurity transport at JET

Impurity transport in JT-60U

Particle confinement in pellet fuelled plasmas in MAST

C. Giroud

S. Kaye

C. Giroud

T. Takenaga

M. Valovic

September 28, 2007

[GYRO simulations of C-Mod plasmas with peaked density profiles](#)

D. Mikkelsen

Discussion of guidelines for ITER density peaking and impact on impurity profiles

17:30 Adjourn

18:00 Bus departure from control building via ITER conference room to Holiday Inn

19:30 TP Group Dinner in Mito at Wasabi-no-hana (Japanese style pub) near Mito JR railway station. See separate details from Sakamoto-san.

September 28, 2007

Wednesday, 3 October

08:00 Bus Departure from Holiday Inn to JAEA ITER conference room and control building

09:00-10:20 Joint TP/CDBM Session on beta scaling of transport (Large Conference Room)

D. McDonald

15 Beta scaling

S. Kaye

15 Pedestal aspects of AUG/DIII-D experiments on beta scaling in improved confinement regimes

R. Groebner

15 Core aspects of recent DIII-D/AUG beta scaling experiments"

E. Doyle

5 Update on JET beta scaling results

D. McDonald

15 Theoretical issues in beta scaling of transport

P. Snyder

Discussion

10:20-10:40 Coffee Break

10:40-12:00 Joint TP/PEP/CDBM session (ITER Conference Room)

20 The influence of tearing modes on ITG mode stability

H. Wilson

20 ITER rotation simulation

R. Budny

80 Discussion of ITER NBI needs, in context of rotation

12:00-13:00 Lunch

13:00-15:00 Reports on recent work of interest (Seminar Room)

20 Recent JET ITB results

P. de Vries

20 Minimum Transport: Paleoclassical

J. Callen

ETG simulation results

D. Mikkelsen

Other recent results?

Discussion

15:00-15:15 Coffee Break

15:15-17:30 Closing session (Seminar Room)

V. Mukhovatov

Any other business

Session summaries, each ~5 min from session chairs

17:30 Adjourn

18:00 Bus departure from control building via ITER conference room to Holiday Inn