

**12th Meeting of the ITPA Transport Physics (TP) Topical Group
7-10 May 2007, EPFL, Lausanne, Switzerland**

Monday, 7 May

08:00-08:30 Registration

08:30-10:00 Joint Plenary Session (TP & CDBM) (CO017)

O. Sauter

Welcome

Prof. A. Fasoli – Vice Director of CRPP

Meeting Arrangements

O. Sauter/ Y. Martin

Status of ITER Design Review and Needs from the Physics Community

D. Campbell

Information for Autumn Meetings, Naka, Japan

T. Takizuka

Solicitation of interest in hosting Spring 2008 Meetings

W. Houlberg/ E. Doyle

10:00-10:20 Coffee Break

10:20-12:30 Improved H-mode: Recent Progress and Projections to ITER (CO017) Y. Sakamoto

Aim (10min)

Y. Sakamoto

JT-60U (20min)

Y. Sakamoto

JET (30+15min)

X. Litaudon

AUG

X. Litaudon

DIII-D

E. Doyle

Discussion

12:30-13:30 Lunch

13:30-15:30 Joint TP & CDBM Session: Transport Predictions for ITER (CO017)

A. Kritz

ITER integrated modelling needs

D. Campbell

Figure of merit for Q for ITER extrapolations

C. Angioni

PTRANSP time-dependent integrated predictions of ITER plasmas

R. Budny

Corsica free-boundary scenario and controller studies for ITER

L. LoDestro

Discussion

15:30-15:50 Coffee Break

15:50-17:30 Joint TP TG/ Modelling WG: DB Development and Model Testing (CO017)

A. Kritz

Profile DB database status and NF paper/release

C. Roach

Comparison of transport models - Weiland, GLF23

A. Kritz

Update on the TGLF transport model

J. Kinsey

GENE simulations of combined ITG, TEM, and ETG

F. Jenko

Discussion

17:30 Visit to TCV

Tuesday, 8 May

Meeting of the Rotation & Momentum Transport Working Group

08:30-10:30 Rotation: Simulations (CO017)

O. Sauter/ J. Rice

Predictive simulations of toroidal and poloidal momentum transport including poloidal momentum spinup in ITB (40min)

J. Weiland

Angular momentum analysis with TRANSP and simulations with GYRO (20min)

R. Budny

Gyrokinetic simulation of toroidal angular momentum transport (20min)

J. Kinsey

10:30-10:50 Coffee Break

10:50-12:30 Rotation: ITER and Experiments (CO017)

O. Sauter/ J. Rice

Assessment of toroidal rotation rate in ITER (10min)

A. Polevoi

Multi-machine scaling of intrinsic rotation (20min)

J. Rice

Toroidal momentum transport in limited and diverted TCV ohmic plasmas (15min)

A. Bortolon

Momentum Transport on JT-60U H-mode Plasmas (20min)

M. Yoshida

Recent results from momentum transport studies at JET (30min)

P. Mantica

12:30-13:30 Lunch

13:30-15:30 Rotation: Simulations and Experiments (CO017)

O. Sauter/ J. Rice

PTRANSP simulations of toroidal momentum transport using GLF23 and Weiland Models (20min)

A. Kritz

Recent spontaneous rotation results from Alcator C-Mod (15min)

J. Rice

Recent intrinsic rotation results from DIII-D (15min)

J. Rice

Momentum confinement studies in NSTX (20min)

S. Kaye

Recent results and plans for TP-6.3 (20min)

M. Peng

15:30-15:50 Coffee Break

15:50-17:30 Rotation: Discussion (CO017)

O.Sauter/ J. Rice

17:30 Bus to Workshop Dinner

Wednesday, 9 May

08:30-10:00 Joint TP TG/ Particle WG: Particle Transport Models and Analyses (CO017)

Transport and fluctuations in LHD and comparisons with tokamaks	H. Weisen
Comparison of gyrokinetic and gyrofluid calculations of particle pinch coefficients	<i>K. Tanaka</i>
Mechanisms for impurity pinching	<i>E. Fable</i>
	<i>C. Angioni</i>

Discussion of results and open issues
 Relations between transport coefficients (D/χ , etc)
 How do our theoretical models compare to experiment?
 What physics might still be missing?
 What to test for?

10:00-10:20 Coffee Break

10:20-12:30 Joint TP TG/ Particle WG: Particle Transport Models and Analyses (continued) (CO017) **H. Weisen**

Measurements of high-k turbulence and correlation with electron transport in DIII-D (20min)	<i>E. Doyle</i>
NSTX results/modeling of high-k turbulence/ETG (20min)	<i>D. Mikkelsen</i>
Observations from 5-code ETG benchmarking effort (20min)	<i>F. Jenko</i>

Continue discussion of previous session

12:30-13:30 Lunch

13:30-15:10 Progress/plans for Joint IEA/ITPA experiments (CO017) **T. Fujita**

TP-3.1: Determine transport dependence on Ti/Te ratio in hybrid and steady-state scenario plasmas	<i>H. Takenaga</i>
TP-3.2: Determine transport dependence on Ti/Te ratio in L-mode plasmas	<i>R. Jaspers</i>
TP-4.2: Low momentum input operation effects on ExB shear and reduced transport	<i>H. Takenaga</i>
TP-5: QH/QDB plasma studies	<i>Y. Sakamoto</i>
TP-7: Measure ITG/TEM line splitting and compare to codes	<i>C. Angioni</i>

15:10-15:30 Coffee Break

15:30-17:30 Progress/plans for Joint IEA/ITPA experiments (continued) (CO017) **T. Fujita**

TP-8.1: NSTX/MAST ITB similarity experiment	<i>M. Peng</i>
TP-8.2: Investigation of rational q effects on ITB formation and expansion	<i>R. Jaspers</i>
TP-8.3: JT-60U/JET ITB similarity experiment	<i>Y. Sakamoto</i>
TP-8.4: T-10/TEXTOR/HL-2A ITB similarity experiments	<i>R. Jaspers</i>
TP-9: H-mode aspect ratio comparison	<i>M. Peng</i>

