

4th ITPA Transport & Confinement Meeting

Culham, Oxford, UK, 22-25 March 2010

Monday March 22

Opening		
830	Registration	
900	Welcome	M. Watkins
910	Logistics	D. McDonald
920	Overview of agenda and other business	S. Kaye

Rotation and Momentum Transport - Experiment		Chair: J. Rice
930	Rotation in ASDEX-U discharges	R. McDermott (r)
955	Momentum transport studies in JET H-mode discharges with an enhanced toroidal field ripple	P. de Vries
1020	Momentum losses by charge exchange friction with neutral particles in JET	T. Versloot
1045	COFFEE	
1105	Radial structure of potential events in the proximity of the edge velocity shear layer in the TJ-II stellarator	C. Hidalgo
1130	Dependence of momentum pinch velocity on collisionality in DIII-D and NSTX	W. Solomon
1155	Intrinsic rotation in JET	F. Nave
1220	LUNCH	
1330	Residual stress in CSDX	G. Tynan
1355	Plasma rotation in Tore Supra with no external momentum input and magnetic field ripple	C. Fenzi
1410	TC-9/TC-14	J. Rice
1430	TC-15	T. Tala
1445	Discussion of results, momentum database	M. Yoshida
1525	COFFEE	
1545	Discussion of momentum transport methodology	M. Yoshida

Rotation and Momentum Transport - Theory		Chair: J. Rice
1645	Simulation of the formation of transport barriers including the generation of poloidal spinup due to turbulence	J. Weiland
1710	Turbulent transport of poloidal and toroidal momentum	C. McDevitt
1735	Continue discussion of results	All
1800	Adjourn	

Tuesday March 23

Helium and Impurity Transport		Chair: C. Angioni
830	Introduction, modeling aspects of He/impurity transport	C. Angioni
900	Observations in DIII-D	C. Petty
930	Observations of He/impurity transport in JT-60U	H. Takenaga (r)
1000	COFFEE	
1030	Observations in JET	C. Giroud
1100	Observations of impurity transport in C-Mod	J. Rice
1130	Observations of impurity transport in L-mode in TORE-SUPRA (& AUG)	C. Bourdelle/R. Guirlet (r)
1200	Observations of impurity transport in NSTX	L. Delgado-Aparicio (r)
1230	LUNCH	
1330	Transport of carbon in TCV OH and ECH plasmas	H. Weisen/E. Fable (r)
1400	Heat transport and L-H threshold in He4 majority experiments in JET	D. McDonald
1430	Discussion and development of action items	H. Weisen
1500	COFFEE	

ITBs/Profile Stiffness		Chair: P. Mantica
1520	Introduction	P. Mantica
1530	The role of magnetic shear and rotation in the suppression of high-k turbulence that leads to the formation of electron ITBs in NSTX	S. Kaye for H. Yuh
1555	Electron ITBs with off-axis ECH	C. Petty
1610	Electron density and particle transport behaviour in internal transport barriers in TCV, JET and JT-60U	C. Angioni
1635	ITB formation and evolution with co- and counter- NBI	A. Field
1700	Links between self-consistent pressure profile and MHD activity, and possibility of ITB formation by rational surface density control	K. Razumova
1725	Canonical profiles and transport model for plasma toroidal rotation in tokamak	Y. Dnestrovskij
1800	Adjourn	

Wednesday March 24

ITBs/Profile Stiffness		Chair: P. Mantica
830	ITBs in RF heated C-MOD plasmas	J. Rice
900	Ion and electron ITB in DIII-D with balanced beams and role of rationals	G. Staebler
930	JET ITBs without rotation	P. de Vries
1000	Ion stiffness mitigation due to rotation and low magnetic shear: an alternative paradigm to explain ion ITBs	P. Mantica
1030	COFFEE	
1050	Recent advances in the understanding of profile stiffness and ITBs	C. Bourdelle
1120	Turbulence response in the high Ti discharge of LHD	K. Tanaka
1150	Discussion	All
1230	LUNCH	

Physics Model Validation During Ramp-Up Phase		Chair D. Mikkelsen
1330	ITER Expert Group standard code benchmarks and transport model validation	D. Mikkelsen
1350	QuaLiKiz, a gyrokinetic quasi-linear transport model for ramp-up modeling	C. Bourdelle
1410	An experimental study of the current ramp up and down on AUG	J. Hobirk
1430	Thermal transport in JET current ramp up discharges	I. Voistekhovitch
1450	Determining the ITER temperature profile using a similarity transformation from present experiments	G. Cordey
1510	COFFEE	
1530	Comparison of temperature predictions during current ramp-up	R. Budny (r)
1550	Benchmark modelling of ITER ramp up in DIII-D	T. Casper
1610	Status of EU effort in current ramp-up/ramp-down modeling	F. Imbeaux (r)
	Joint IOS/TC paper on current ramp-up/ramp-down modelling	F. Imbeaux (r)
1650	Discussion, modelling plan development	All
1800	Adjourn	

Thursday March 25

TC-2: Access to H~1 Regimes		Chair: Y. Martin
830	AUG	F. Ryter
845	JET	C. Maggi
900	NSTX	S. Kaye
915	Discussion of TC-2 JEX	All
935	I-mode in C-Mod	J. Rice
1000	COFFEE	
1020	I-mode in AUG	F. Ryter
1045	I-mode in DIII-D	C. Petty
1110	Discussion of I-mode - Possible future JEX	All
1140	TC-summaries (TC-12,.....?)	S. Kaye
1210	Wrap-Up, Plan for Fall '10 Meeting (Seoul, S. Korea, after IAEA)	
1230	Adjourn	