

23rd ITPA meeting on SOL/divertor physics, 24-27 October 2016, QST(former JAEA), Naka, Japan

All sessions will be at Naka Fusion Institute in the Multi-purpose Hall.							
Legend: Physics , Modelling , Materials							
Monday 24 October							
Session			Start time	Duration	Discussion	Speaker	Topic/title
Welcome							Chair: H. Guo
			09:00	00:30	00:00		Welcome addresses and introduction to JT-60SA
			09:30	00:05	00:00		Other topical groups leave multi-purpose hall
Session 1	DSOL-28 - Narrow heat flux widths and divertor power dissipation						Chair: A. Scarabosio
			09:35	00:10	00:00	A. Scarabosio	Report on DSOL-28 progress
			09:45	00:15	00:05	B. Sieglin	New results from AUG (including He experiments), TCV and JET
			10:05	00:15	00:05	M. Makowski	Mass scaling of heat flux width including He data from DIII-D
		Coffee Break	10:25	00:35	00:00		Registration (Lunch ticket, dinner, WIFI agreement)
			11:00	00:15	00:05	H.H. Lee	Latest inter-ELM results from KSTAR
			11:20	00:20	00:05	C.S. Chang	Results from US theory task on modeling heat flux width
Session 2	DSOL-37 - Effects of 3D fields on divertor heat flux and erosion						Chair: O. Schmitz
			11:45	00:15	00:05	M. Kobayashi	Divertor power load measurement and comparison with EMC3-EIRENE at LHD
			12:05	00:15	00:05	H.H. Lee	Recent 3-D divertor physics results during extended ELM suppression at KSTAR
			12:25	00:15	00:00	O. Schmitz for J.-W. Ahn	3-D heat flux profiles during detachment transition at NSTX
		Lunch	12:40	01:00	00:00		
			13:40	00:15	00:05	D. Orlov	DIII-D results on oscillating n=3 field experiments
			14:00	00:15	00:05	M. Becoulet	Recent results on the impact of plasma response on divertor fluxes from JOEUK modeling
			14:20	00:20	00:05	F. Orain	AUG results on 3-D divertor physics including plasma response to RMPs
			14:45	00:15	00:05	O. Schmitz	Report on DSOL-37 progress - Overview on the 3D-field effects assessment presented to the ITER STAC
Session 3	DSOL-PEP joint session						Chair: T. Leonard & R. Maingi
			15:05	00:15	00:00	T. Leonard / R. Maingi	Introduction
			15:20	00:15	00:05	M. Dunne	Effect of fuelling and impurity seeding on the pedestal and core confinement
			15:40	00:15	00:05	F. Reimold	The effect of the divertor plasma and the high field side high density on the pedestal and core fuelling
		Coffee Break	16:00	00:20	00:00		
			16:20	00:15	00:05	B. Sieglin	ELM scaling studies - methodology and newest results
			16:40	00:15	00:05	G. Huijsmans	Consistency of experimental ELM scaling with MHD modelling
Discussion with PEP							Chair: T. Leonard & R. Maingi
			17:00	00:00	01:00		
		Adjourn	18:00				
		Bus departure	18:15				
		Workshop Dinner	19:00				
Tuesday 25 October							
Session			Start time	Duration		Speaker	Topic/title
Session 4	Progress in fluid code modelling						Chair: S. Wiesen
			09:00	00:15	00:05	A. Järvinen	Impact of cross-field drifts on divertor detachment in DIII-D
			09:20	00:15	00:05	T. Baelmans	Fluid-kinetic coupling and respective code convergence issues
			09:40	00:15	00:05	Y. Marandet / H. Bufferand	Extended grid modeling with SolEdge2D
			10:00	00:15	00:05	T. Xia	BOU++ modeling of ELM heat flux on EAST
Discussion on fluid code modelling							Chair: S. Wiesen
			10:20	00:00	00:30		
		Coffee Break	10:50	00:20	00:00		
Discussion on DSOL-37							Chair: O. Schmitz
			11:10	00:00	00:50		
Discussion on DSOL-28							Chair: A. Scarabosio
			12:00	00:00	00:40		
		Lunch	12:40	01:00	00:00		
Session 5	DSOL-38 - Synergistic effects by combined heat and particle loads						Chair: J. Coenen
			13:40	00:10	00:00	J. Coenen	Report on DSOL-38 progress
			13:50	00:15	00:05	M. Miyamoto	Microstructure and D-retention in Be/D co-deposition layer formed by high density plasma exposure in PISCES
			14:10	00:15	00:05	M. Tokitani	JET post mortem tile analysis update
			14:30	00:15	00:05	A. Kreter	Influence of impurities on fuel retention in tungsten (PSI-2)
			14:50	00:15	00:05	K. Schmid for T. Schwarz-Selinger	New experimental results on the influence of He in W on D transport
			15:10	00:15	00:05	K. Heinola	Influence of impurities (e.g. He, N) on retention and recycling in W & Be
			15:30	00:15	00:05	A.M. Ito	Atomic scale hybrid simulation for hydrogen and helium irradiation into tungsten material
		Coffee Break	15:50	00:20	00:00		

Session 6	DSOL-33 - He operations in metallic devices					Chair: S. Brezinsek
		16:10	00:15	00:05	S. Brezinsek	Report on DSOL-33 progress
Session 7	DSOL-34 - Far-SOL fluxes and link to detachment					Chair: D. Carralero
		16:30	00:15	00:05	D. Carralero	Report on DSOL-34 progress and new results from AUG
		16:50	00:15	00:05	B. Lipschultz	Main chamber recycling and radial SOL fluxes (L- and H-mode) in JET
		17:10	00:15	00:05	N. Vianello	Latest results from TCV
	Discussion on DSOL-34					Chair: D. Carralero
		17:30	00:00	00:30		
	Adjourn	18:00				
	Bus departure	18:15				
Wednesday 26 October						
Session		Start time	Duration		Speaker	Topic/title
Session 8	DSOL-31 - Leading edge power loading and monoblock shaping					Chair: R. Pitts
		09:00	00:15	00:00	R. Pitts	Report on DSOL-31 progress and on outcome of shaping workshop in 09/2016
		09:15	00:15	00:05	K. Krieger	Results from AUG melt experiment - transient melting and thermionic emission
		09:35	00:15	00:05	J. Coenen	Results from new JET melt experiment - detailed analysis of IR data vs thermal response modelling
		09:55	00:20	00:05	R. Dejarnac	Update on gap loading in COMPASS and PIC modelling of AUG tile shadowing experiment
	Coffee Break	10:20	00:20	00:00		Meeting in lobby for group photo
		10:40	00:15	00:05	D. Rudakov	New leading edge power loading and melting results from DIII-D
	Discussion on DSOL-31					Chair: R. Pitts
		11:00	00:00	00:30		
Session 9	DSOL-36 - Effects of damaged tungsten on plasma operation					Chair: G. de Temmerman
		11:30	00:10	00:00	G. de Temmerman	Report on DSOL-36 progress
		11:40	00:15	00:05	Y. Hatano	T retention in damaged W - studies in Phenix
		12:00	00:15	00:05	H.T. Lee	Tritium diffusion and isotope exchange in damaged tungsten
		12:20	00:15	00:05	S. Masuzaki for Y. Oya	He retention in W samples damaged by He plasma irradiation in LHD
	Lunch	12:40	01:00	00:00		
		13:40	00:15	00:05	X. Zhang	Thermal shock property of tungsten with various deformation degrees under transient high heat flux
	Discussion on DSOL-36					Chair: G. de Temmerman
		14:00	00:00	00:30		
	Discussion on DSOL-38					Chair: J. Coenen
		14:30	00:00	00:30		
Session 10	First mirror lifetime					Chair: R. Pitts
		15:00	00:15	00:05	G. de Temmerman	Outcome of mirror GDC tests at MEFH and of first mirror tests at JET
		15:20	00:15	00:05	A. Litnovsky	Update on Mirrors Analysis (Rh, Mo single crystals)
		15:40	00:15	00:05	S. Brezinsek for M. Rubel	JET mirror test with Mo mirrors and analysis of in-vessel mirrors used in the Li beam diagnostic
	Coffee Break	16:00	00:20	00:00		
Session 11	Vapour shielding					Chair: R. Pitts
		16:20	00:15	00:05	K. Ibano	PIC simulations of vapour shielding in tokamaks and linear devices
		16:40	00:15	00:05	Y. Kikuchi	Vapour shielding - new results.
Session 12	Dust experiments and modelling					Chair: S. Masuzaki
		17:00	00:15	00:05	L. Vignitchouk for S. Ratynskaia	Recent AUG experiments on W dust re-mobilisation and transport in AUG
		17:20	00:15	00:05	N. Ashikawa	New results of JET dust analysis
		17:40	00:15	00:05	L. Vignitchouk	Modelling of dust transport in ITER disruptions
	Adjourn	18:00				
	Bus departure	18:15				
Thursday 27 October						
Session		Start time	Duration		Speaker	Topic/title
Session 13	Dynamic outgassing and pedestal fuelling					Chair: T. Nakano
		09:00	00:15	00:05	K. Schmid	Model for dynamic outgassing from W
		09:20	00:15	00:05	S. Wiesen	JET experiments on pedestal refuelling by ELMs on bulk-W target plate
		09:40	00:15	00:05	N. Ohno	Dynamic retention in W
	Coffee Break	10:00	00:20	00:00		
Session 14	Impurity Monte-Carlo codes					Chair: K. Krieger
		10:20	00:15	00:05	S. Brezinsek for A. Eksaeva	ERO modeling of tungsten erosion experiments in the linear plasma device PSI-2
		10:40	00:15	00:05	S. Yamoto	W transport simulations in divertor and SOL plasma using IMPGYRO and benchmark against DIVIMP
		11:00	00:15	00:05	Y. Homma	Numerical analysis on prompt redeposition of tungsten impurity
Session 15	ITER schedule and discussion of next meeting					Chair: H. Guo
		11:20	00:15	00:00	R. Pitts	Update on ITER research plan
		11:35	00:00	00:10	H. Guo	Wrap up and announcement of next meeting
	Adjourn	11:45	00:05	00:00		
	Visit JT-60SA					
		11:50	00:10	00:00		Walk to JT-60SA
		12:00	00:30	00:00		JT-60SA tour / Closed meeting for DSOL leadership
	Lunch	12:30	01:30	00:00		
	Bus departure	14:15				