32nd ITPA meeting of TG SOL and divertor physics, the Castle of CEA, Cadarache, France,

Website	https://irfm.cea.fr/en/Phocea/Page/index.php?id=910
SharePoint	https://sharepoint.iter.org/departments/POP/ITPA/SD/SD/Shared%20Documents/Forms/AllItems.aspx?RootFolder=%2fdepartments%2fPOP%2fITPA%2fSD%2fSD%2fShared%20Documents%2f32nd%20DSOL%20TG%20Meeting&FolderCTID=0x0120000D097A217A60144D9E1EABBFCA89786E

Sessions will be held on-site as well as Zoom video conference

Legend of general session topics: Plasma Physics, Materials, Modelling

Monday 24 Oct

	Start time	Duration	Discussion	Speaker	Topic/title
Welcome address and organisational issues					
	10:00	0:10		T. Nakano/N. Fedorczak	Opening remarks/Logistics
DSOL-33 He operations in devices with metallic PFMs					**Chair: S. Brezinsek**
	10:10	0:10	0:05	S. Brezinsek	Introduction
	10:25	0:15	0:05	M. Patino	A model of ballistic helium transport during helium-induced fuzz growth in tungsten
	10:45	0:15	0:05	E. Tonello	SOLPS-ITER modelling of pure helium plasma background for PMI experiments in ASDEX-Upgrade
	11:05	0:15	0:05	S. Brezinsek	Preparation of W-He interaction experiments in JET: PSI-2 experiments under JET conditions and mate
	11:25	0:15	0:05	M. Rasinski	W fuzz studies in ASDEX Upgrade He plamas: Erosion and formation of W fuzz under H-mode conditi
	11:45		**0:30**		**Discussion**
Lunch	**12:15**	**0:45**			
DSOL-44 End-of-lifetime criteria for divertor PFCs					**Chair: J. Coenen, E. Tsitrone**
	13:00	0:20	0:10	J. Coenen	Overview of DSOL-44
DIAG-13					**Chair: T. Nakano**
	13:30	0:20	0:05	C. Grisolia	present the last results of LIBS4ITER.
	13:55	0:15	0:05	S. Brezinsek	update of JET-LID QMS dianostic
DSOL-46 Charge-Exchange neutral-induced first wall erosion					**Chair: R. Ding**
	14:15	0:05	0:00	R. Ding (remote)	Introduction
	14:20	0:15	0:05	R. Ding (remote)	Updates on neutral-induced Material Erosion studies in EAST
	14:40	0:15	0:05	K. Schmid	current far sol assumptions in ITER
	15:00	0:15	0:05	T. Wauters	IO's view and plan
	15:20	0:15	0:05	Andrei Goriaev	Contribution of TOMAS to First Wall erosion studies
	15:40	0:15	0:05	D. Rudakov (remote)	DIII-D updates
	16:00		**0:30**		**Discussion**
MDC-DSOL-1					**Chair: T. Nakano**
	16:30	0:15	0:05	E. Hollmann (remote)	Progress in MDC-DSOL-1
Adjourn	**16:50**				
Bus	**17:10**				

Tuesday 25 Oct

	Start time	Duration	Discussion	Speaker	Topic/title
DSOL-45 Efficiency and optimisation of ECWC					**Chair: T. Wauters**

			10:00	0:15	0:05	T. Wauters	Introduction and overview of ASDEX upgrade results
			10:20	0:15	0:05	T. Nakano	Update of KSTAR results
			10:40	0:15	0:05	M. Fukumoto	Ne gas ECWC experiment on QUEST
			11:00	0:15	0:05	J. Buermans	TCV, TOMAS and ASDEX Upgrade simulations in 1D
			11:20	0:15	0:05	Dekeyser or Carli	Plans for modelling ECWC in 2D using SOLPS-ITER with extended grid
			11:40		**0:30**		**Discussion**
		Lunch	**12:10**	**0:45**			
		General					**Chair: T. Wauters**
			12:55	0:20	0:00	J. Rapp	Next ITPA meeting
		General					**Chair: J. Rapp**
			13:15	0:30	0:00	K. Krieger	NF special issue
		DSOL-34: Far-SOL fluxes and their link to detachment					**Chair: N. Vianello**
			13:45	0:05	0:00	N. Vianello	Introduction
			13:50	0:15	0:05	A. Stagni	Effect of shaping on SOL profiles and turbulence in high-density H-mode plasmas
			14:10	0:15	0:05	A. Redl	Characterization of first wall heat loads in small ELM high-density regimes in ASDEX Upgrade
			14:30	0:15	0:05	N. Bisai	On the modification of edge turbulence by impurity seeding
			14:50	0:15	0:05	W. Zholobenko	Non-local far-SOL turbulent transport depending on divertor conditions, simulated with GRILLIX
			15:10	0:15	0:05	C. Wüthrich	Divertor and X-point turbulence properties and parameter dependencies on TCV
			15:30	0:15	0:05	H. Sun	Broadening of SOL profiles in JET tritium plasma and its impact on machine operation
			15:50	0:15	0:05	J. Boedo	Shoulder formation on DIII-D
			16:10		**0:45**		**Discussion**
		Adjourn	**16:55**				
		Bus	**17:10**				
Wednesday 26 Oct							
			Start time	**Duration**	**Discussion**	**Speaker**	**Topic/title**
		DSOL-40 ELM heat load studies + PEP joint session on small ELMs					**Chair: X.Xu (DSOL: M. Faitsch)**
			10:00	0:15	0:05	Xueqiao Xu	Introduction
			10:20	0:15	0:05	Y. Wang	Small ELMs achieved at low pedestal collisionality (<1) on EAST
			10:40	0:15	0:05	G. Xu	Detachment-compatible small ELM regime at low q95=3-4 with Ne radiation mantle on EAST
			11:00	0:15	0:05	N. Wu	Investigation on the compatibility between the small ELMs and radiation divertor on the HL-2A tokamak
			11:20	0:15	0:05	Jiri Adamek	ELM temporal characteristics in COMPASS
			11:40	0:15	0:05	Elisabeth Wolfrum	Optimising confinement in the QCE scenario in ASDEX Upgrade
		Lunch	**12:00**	**1:00**			
			13:00	0:15	0:05	Michael Faitsch	The separatrix operational space of the QCE regime at ASDEX Upgrade
			13:20	0:15	0:05	Carine Giroud	The high-triangularity scenario with small/no ELMs at partially detached plasmas in JET discharges
			13:40	0:15	0:05	Nami Li	Small ELM dynamics and its impact on the SOL width scaling
			14:00	0:15	0:05	E. de la Luna	Small ELMs at JET Without Impurity Seeding
		Coffee break	**14:20**	**0:20**			
			14:40	0:15	0:05	Choongseok Chang	Coupling of Divertor-Pedestal Plasma via Intrinsic Homoclinic Tangle by Electromagnetic Turbulence in full-current ITER
			15:00	0:15	0:05	Peter Traverso	Investigation of pedestal parameters and divertor heat fluxes in small ELM regimes on DIII-D
			15:20	0:15	0:05	Renato Perillo	Studying ELM heat flux to the walls with experiments and simulations with the parallel-loss-model
			15:40		**1:00**		**Discussion**
		Adjourn	**16:40**				
		bus	**17:10**				
Thursday 27 Oct							
			Start time	**Duration**	**Discussion**	**Speaker**	**Topic/title**
		DSOL-37 Effects of 3-D fields on divertor conditions and PWI					**Chair: O. Schmiz/M. Jakubowski**
			10:00	0:05	0:00	O. Schmiz/M. Jakubowski	Introduction
			10:05	0:15	0:05	Heinke Frerichs	Heuristic predictions of RMP configurations for ELM suppression in KSTAR and ITER, and their implications for divertor parameters
			10:25	0:15	0:05	Manni Jia	Updates of integrated ELM and divertor flux control by RMPs in EAST
			10:45	0:15	0:05	Hyungho Lee	Progress in understanding the effects of MPs on the distribution of the divertor heat fluxes in KSTAR
			11:05	0:15	0:05		TBD
			11:25		**0:30**		**Discussion**
		DSOL-41 Detachment Phys					**Chair: S. Wiesen**
			11:55	0:05	0:00	S. Wiesen	Introduction
			12:00	0:15	0:05	N. Rivals	Impact of enhanced far-SOL transport on first wall fluxes in ITER from full vessel edge plasma simulat
			12:20	0:15	0:05	K. Verhaegh	Experimental investigations of plasma-molecular interactions with implications for modelling
		Lunch	**12:40**	**0:45**			
			13:25	0:15	0:05	V. Rozhansky	Radial electric field in the SOL based on SOLPS-ITER simulations
			13:45	0:15	0:05	W. Gracias	Time dependent SOLPS-ITER modelling of JET N-seeded divertor reattachment
			14:05	0:15	0:05	J.-S. Park	Impact of gas injection location and divertor surface material on ITER FPO divertor performance
			14:25	0:15	0:05	F. Scotti	Modelling C + N concentrations in DIII-D (exact title tbc)
			14:45	0:15	0:05	J. Canik	Impact of closure on the deeply detached divertor in DIII-D
			15:05	0:15	0:05	S. De Pascuale	Data-Driven Model Predictive Control of Nonlinear SOLPS-ITER Simulations
			15:25	0:15	0:05	B. Zhu	Data-driven model for divertor plasma detachment prediction

			15:45		**1:00**		**Discussion**
		Adjourn	**16:45**				
		bus	**17:10**				
		Dinner					
Friday 28 Oct							
			Start time	**Duration**	**Discussion**	**Speaker**	**Topic/title**
		DSOL-43 Detachment control					**Chair: D. Eldon / M. Bernert**
			10:00	0:05	0:00	D. Eldon	Introduction
			10:05	0:15	0:05	J. Hwang	Long period detachment and control in KSTAR
			10:25	0:15	0:05	J. Koenders	Detachment dynamics and control on TCV and DIII-D
			10:45	0:15	0:05	M. Bernert	AUG: Progress in Detachment and its Control
			11:05	0:15	0:05	T. Ravensbergen	Plans & discussion for detachment control experiments at JET
			11:25		**0:40**		**Discussion**
		Lunch	**12:05**	**0:45**			
		DSOL-39 transient-induced melting of metal PFCs					**Chair: R. A. Pitts**
			12:50	0:05	0:00	R. A. Pitts	Introduction
			12:55	0:15	0:05	S. Ratynskaia	The successor to the MEMOS-U code: physics model and capabilities
			13:15	0:15	0:05	K. Krieger	Investigation of melt flow across toroidal monoblock gaps in ASDEX Upgrade
			13:35	0:15	0:05	K. Paschalidis	Modelling of W melt motion across ITER-like gaps
			13:55	0:15	0:05	D. Rudakov	Controlled aluminium melting experiment at DIII-D
			14:15		**0:15**		**Discussion**
		General					**Chair: T. Nakano**
			14:30	0:05		T. Nakano	Closing
		ITER Tour					**Chair: T. Wauters**
			14:35				