

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

Website	https://irfm.cea.fr/en/Phoceia/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																															
-9	San Diego ... United States...	01:00 - 07:00 Mon, Oct 24 Mon, Oct 24	15 16 17 18 19 20 21 22 23														MON	1 2 3 4 5 6						7 8 9 10 11 12 13 14							
																	OCT 24														
-7	Madison ... United States...	03:00 - 09:00 Mon, Oct 24 Mon, Oct 24	17 18 19 20 21 22 23														MON	3 4 5 6 7 8						9 10 11 12 13 14 15 16							>
																	OCT 24	1 2													
-6	Oak Ridge ... United States...	04:00 - 10:00 Mon, Oct 24 Mon, Oct 24	18 19 20 21 22 23														MON	4 5 6 7 8 9						10 11 12 13 14 15 16 17							>
																	OCT 24	1 2 3													
-1	London ... United Kingdom...	09:00 - 15:00 Mon, Oct 24 Mon, Oct 24	23														MON	9 10 11 12 13 14						15 16 17 18 19 20 21 22							>
			OCT 24	1 2 3 4 5 6 7 8																											
🏠	Marseille ... France	10:00 - 16:00 Mon, Oct 24 Mon, Oct 24	OCT 24														MON	10 11 12 13 14 15						16 17 18 19 20 21 22 23							>
			1 2 3 4 5 6 7 8 9																												
+1	Moscow ... Russia	11:00 - 17:00 Mon, Oct 24 Mon, Oct 24	1 2 3 4 5 6 7 8 9 10														11 12 13 14 15 16						17 18 19 20 21 22 23							TUE OCT 25 >	
+6	Beijing ^{CST} China	16:00 - 22:00 Mon, Oct 24 Mon, Oct 24	6 7 8 9 10 11 12 13 14 15														16 17 18 19 20 21						22 23							TUE OCT 25 1 2 3 4 5 >	
+7	Tokyo ^{JST} Japan	17:00 - 23:00 Mon, Oct 24 Mon, Oct 24	7 8 9 10 11 12 13 14 15 16														17 18 19 20 21 22						23							TUE OCT 25 1 2 3 4 5 6 >	
+9	Sydney ... Australia	19:00 - 01:00 Mon, Oct 24 Tue, Oct 25	9 10 11 12 13 14 15 16 17 18														19 20 21 22 23						OCT 25							1 2 3 4 5 6 7 8 >	

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							
			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							
			13:00	0:20	0:10	J. Coenen (remote)	Overview of DSOL-44
DIAG-13							
			13:30	0:20	0:05	A. Bultel (remote)	The last results of LIBS for ITER.
			13:55	0:15	0:05	S. Brezinsek	update of JET-LID QMS dianostic
DSOL-46 Charge-Exchange neutral-induced first wall erosion							
			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	A. Gorjaev	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							
			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							

			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 (remote)	TCV, TOMAS and ASDEX Upgrade simulations in 1D
			11:20	0:15	0:05	W. Dekeyser (remote)	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 (remote)	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 (remote)	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	X. 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 (remote)	Detachment-compatible small ELM regime at low q95=3-4 with Ne radiation mantle on EAST
			11:00	0:15	0:05	N. Wu (remote)	Investigation on the compatibility between the small ELMs and radiation divertor on the HL-ZA tokamak
			11:20	0:15	0:05	J. Adamek	ELM temporal characteristics in COMPASS
			11:40	0:15	0:05	E. Wolfrum	Optimising confinement in the QCE scenario in ASDEX Upgrade
		Lunch	12:00	1:00			
			13:00	0:15	0:05	M. Faitsch	The separatrix operational space of the QCE regime at ASDEX Upgrade
			13:20	0:15	0:05	C. Giroud (remote)	The high-triangularity scenario with small/no ELMs at partially detached plasmas in JET discharges
			13:40	0:15	0:05	N. 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	CS Chang (remote)	Coupling of Divertor-Pedestal Plasma via Intrinsic Homoclinic Tangle by Electromagnetic Turbulence in full-current ITER
			15:00	0:15	0:05	P. Traverso (remote)	Investigation of pedestal parameters and divertor heat fluxes in small ELM regimes on DIII-D
			15:20	0:15	0:05	R. 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	M. Jakubowski (remote)	Introduction
			10:05	0:15	0:05	H. Frerichs (remote)	Heuristic predictions of RMP configurations for ELM suppression in KSTAR and ITER, and their implications for divertor parameters
			10:25	0:15	0:05	M. Jia (remote)	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	MX. Navarro-Gonzalez	3D Erosion and Impurity Transport in RMP L-mode discharges at DIII-D using the ERO2.0 code
			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 simulation
			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 (remote)	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 (remote)	Modelling C + N concentrations in DIII-D (exact title tbc)
			14:45	0:15	0:05	J. Canik (remote)	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 (remote)	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 (remote)	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 (remote)	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				