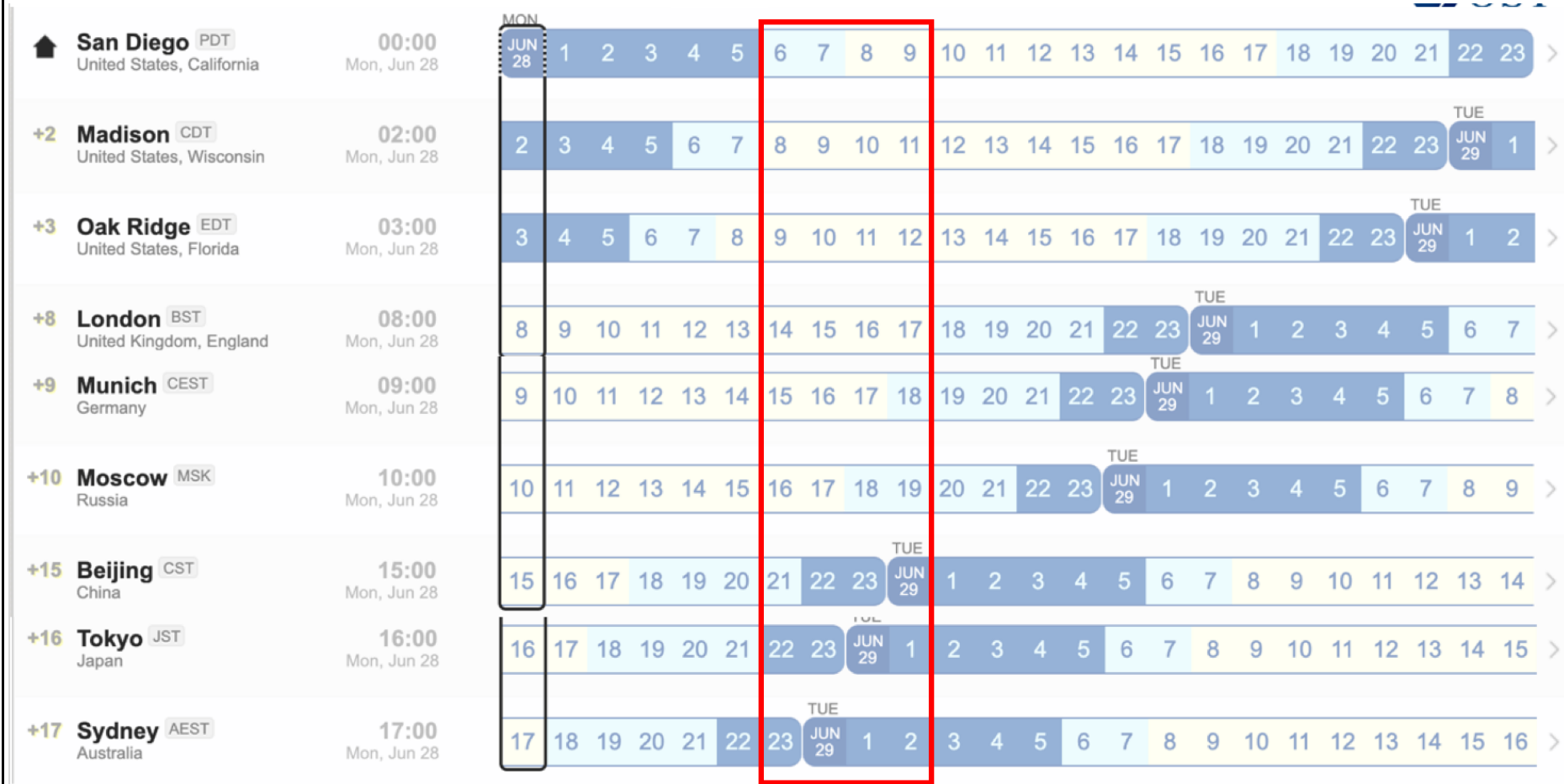


# 30th ITPA meeting of TG SOL and divertor physics, The Internet, 28.06.–09.07.2021

Sessions will be held as Zoom video conference

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

Sessions will be scheduled within the four hour time frame shown below for a number of relevant time zones across the globe - Times in agenda refer to Central European Summer Time (CEST)



## Monday 28 June

	Start time	Duration	Discussion	Speaker	Topic/title
<b>Welcome address and organisational issues</b>					
	15:00	0:10			
<b>Session 1</b>	<b>DSOL-33 He operations in devices with metallic PFMs</b>				<b>Chair: S. Brezinsek</b>
	15:10	0:10	0:05	S. Brezinsek	Introduction
	15:25	0:15	0:05	R. Bisson	WEST: He Outgassing from W / isotope exchange
	15:45	0:15	0:05	M. Balden	Analysis of WEST PFCs after He/D exposure
	16:05	0:15	0:05	A. Huber	JET: He-W and He-Be interaction in JET mixed He/D plasmas
	<b>Coffee Break 16:25</b>	<b>0:10</b>			
	16:35	0:15	0:05	M. Rasinski	AUG: He - W interaction and morphology changes in L- and H-mode plasmas
	16:55	0:15	0:05	M. Patino	Material mixing by dislocation loop punching during He-induced fuzz growth on W-Mo thin films
	17:15	0:15	0:05	R. Ding	EAST: He-W interaction and post-mortem analysis of MPM samples
	17:35	0:15	0:05	S. Masuzaki	Analysis of LHD test sample exposed to He long pulse discharges
	<b>Coffee Break 17:55</b>	<b>0:10</b>			
	18:05		0:55		<b>Discussion</b>
	<b>Adjourn 19:00</b>				

## Tuesday 29 June

	Start time	Duration	Discussion	Speaker	Topic/title
<b>Session 2</b>	<b>DSOL-44 End-of-lifetime criteria for divertor PFCs</b>				<b>Chair: J. Coenen/E. Tsitrone</b>
	15:00	0:05	0:00	J.W. Coenen	Introduction
	15:05	0:15	0:05	D. Zhu	Studies of W monoblock cracking in EAST
	15:25	0:15	0:05	E. Tsitrone	Operating ITER like PFU in WEST : damage evolution between the C3 and C4 campaigns
	15:45	0:15	0:05	H. Greuner	Evolution of ( micro to macro crack evolution ) Gladis
	16:05	0:15	0:05	M. Wirtz	Prep of components for WEST
	16:25		0:25		<b>Discussion</b>
	<b>Coffee Break 16:50</b>	<b>0:10</b>			
<b>Session 3</b>	<b>DSOL-45 Efficiency and optimisation of ECWC</b>				<b>Chair: T. Wauters</b>
	17:00	0:05	0:00	T. Wauters	Introduction
	17:05	0:15	0:05	P.C. de Vries	Assessment of an ITER ECWC operation scenario
	17:25	0:15	0:05	T. Nakano	Recent ECWC experience in KSTAR
	17:45	0:15	0:05	J. Cavalier	Tomography of tangential camera images as a diagnostic tool for ECWC in TCV
	18:05	0:15	0:05	J. Buermans	Modelling of ECRF plasmas at the fundamental resonance in TOMAS
	18:25	0:15	0:05	A. Goriaev	ECRH conditioning at W7-X
	18:45		0:20		<b>Discussion</b>
	<b>Adjourn 19:05</b>				

Wednesday 30 June							
			Start time	Duration	Discussion	Speaker	Topic/title
Session 4	DSOL-32 / DSOL-41: Detachment physics/seeding					Chair: M.Wischmeier/S. Wiesen/T. Leonard	
			15:00	0:15	0:05	S. Wiesen / M. Wischmeier	Introduction DSOL41/32
			15:20	0:15	0:05	K. D. Li/L. Wang	Argon vs Neon seeded detachment in EAST
			15:40	0:15	0:05	N. Ezumi	N molecular spectroscopy in GAMMA-10
			16:00	0:15	0:05	M. Kobayashi	Detachment control with ECH feedback injection in LHD
		Coffee Break	16:20	0:10			
			16:30	0:15	0:05	M. Cavedon	Exp results on detachment and new DivTS data in AUG
			16:50	0:15	0:05	F. Scotti	Vis/VUV C&N density in Div. comp to upstream density in DIII-D
			17:10	0:15	0:05	O. Fevrier	exp results on detachment with baffles (no baffles) in TCV
		CANCELED	17:30	0:15	0:05	C. Giroud / S. Brezinsek	JET Neon seeded V target high power
		Coffee Break	17:30	0:10			
			17:40		1:00		Discussion
		Adjourn	18:40				
Thursday 01 July							
			Start time	Duration	Discussion	Speaker	Topic/title
Session 5	DSOL-32 / DSOL-41: Detachment physics/seeding +DSOL-43: Detachment control					Chair: D. Eldon/M. Bernert	
			15:00	0:05	0:00	S. Wiesen / M. Wischmeier	Introduction DSOL41/32
			15:05	0:15	0:05	H. Lee	Understanding of detachment in KSTAR
			15:25	0:15	0:05	Rozhansky	Multi-machine size scaling modelling
			15:45	0:15	0:05	D. Eldon	Intro DSOL-43
			16:05	0:15	0:05	M. Komm	Detachment control with Divertor Probes at COMPASS
		Coffee Break	16:25	0:10			
			16:35	0:15	0:05	J. Koenders	Detachment control in TCV and AUG
			16:55		1:00		Discussion
		Coffee Break	17:55	0:10			
Session 6	General					Chair: J. Rapp	
			18:05	0:15	0:40	T. Nakano	UIPB/ITPA review paper
		Adjourn	19:00				
Monday 05 July							
			Start time	Duration	Discussion	Speaker	Topic/title
Session 8	DSOL-34: Far-SOL fluxes and their link to detachment					Chair: N. Vianello	
			15:00	0:15	0:05	N. Vianello	Introduction
			15:20	0:15	0:05	N. Vianello	H-Mode investigation on TCV and AUG
			15:40	0:15	0:05	B. Tal	Experimental investigation of far SOL broadening at ASDEX Upgrade
			16:00	0:15	0:05	M. Giacomini	Theory-based scaling laws of the near and far scrape-off layer widths
		Coffee Break	16:20	0:10			
			16:30	0:15	0:05	N Bisai	Plasma blob formation mechanism in SOL using 3D simulations and its experimental validation
			16:50	0:15	0:05	A. Brown	Generalization of the Heuristic Drift Model for Finite Collisionality and Effect on Flow Shearing Rate
			17:10	0:15	0:05	J. Boedo	Density shoulder formation in DIII-D
			17:30		1:00		Discussion
		Coffee Break	18:30	0:10			
Session 7	General					Chair: T. Nakano	
			18:40	0:20	0:05	M. Reinke	SPARC PFC Design and Divertor Mission
		Adjourn	19:05				
Tuesday 06 July							
			Start time	Duration	Discussion	Speaker	Topic/title
Session 9	DSOL-39 ELM loading at toroidal tile edges					Chair: R.A. Pitts	
			15:00	0:05	0:00	R.A. Pitts	Introduction
			15:05	0:15	0:05	K. Krieger	Quantification of ELM-related Larmor ion flux to side faces of toroidal gaps of divertor PFCs
			15:25	0:15	0:05	K. Krieger	Study of ELM-triggered transient melt motion as function of thermionic emission current
			15:45	0:15	0:05	Y Corre	Sustained melting and first toroidal gap loading experiment performed in WEST
		Coffee Break	16:05	0:10			
			16:15	0:15	0:05	L. Chen	Latest results from W and Be PFC melt simulations on ITER
			16:35	0:15	0:05	K. Ibano	New Be vapour shielding simulations for ITER using the PIXY code
			16:55	0:15	0:05	S. Ratynskaia	Modelling of recent tungsten melting experiments with MEMOS-U
			17:15	0:15	0:05	L. Vignitchouk	Simulations of disruption-induced Be melt splashing in ITER and comparison with published JET-ILW d
		Coffee Break	17:35	0:10			
			17:45		1:00		Discussion
		Adjourn	18:45				

Wednesday 07 July								
			Start time	Duration	Discussion	Speaker	Topic/title	
Session	10	general					Chair: J. Rapp	
			15:00	0:20	0:10	S. Ide	JT-60SA quick report	
Session	11	DSOL-37 Effects of 3-D fields on divertor conditions and PWI					Chair: O. Schmiz/M. Jakubowski	
			15:30	0:15	0:05	M.Jakubowski/O. Schmitz	Introduction	
			15:50	0:15	0:05	J. van Blarcum	EMC3-EIRENE studies for ITER/KSTAR of the relation of plasma response to divertor footprint	
			16:10	0:15	0:05	Y. In	KSTAR update on divertor thermal loading during RMP ELM control	
			<b>Coffee Break 16:30</b>	<b>0:10</b>				
			16:40	0:15	0:05	Qun Ma	EAST update on recent experiments and analysis of plasma response vs. divertor footprint and route in	
			17:00	0:15	0:05	T. Lunt	AUG update onto attempts to combine RMP application with high density in the upper divertor	
			17:20	0:15	0:05	D. Orlov	DIII-D new results on phase scans in n=2	
			<b>Coffee Break 17:40</b>	<b>0:10</b>				
			17:50		<b>1:00</b>		<b>Discussion</b>	
			<b>Adjourn 18:50</b>					
Thursday 08 July								
			Start time	Duration	Discussion	Speaker	Topic/title	
Session	12	Collabrations between TGs					Chair: K. Krieger	
			15:00	0:15	0:05	S. Brezinsek	DIAG-DSOL: LIDS and LIBS (A.7, A.9)	
			15:20	0:15	0:05	M. LEHNEN	MHD-DSOL: wall heat loads during disruptions & runaways (B1.1, B1.3)	
Session	13	DSOL-40 ELM heat load studies					Chair: M. Faitsch	
			15:40	0:10	0:05	M.Faitsch	Introduction	
			15:55	0:15	0:05	M.Faitsch	In/Out asymmetry studies at JET	
			16:15	0:15	0:05	M.Komm	First observations of ELM buffering at AUG	
			<b>Coffee Break 16:35</b>	<b>0:10</b>				
			16:45	0:10	0:05	D.Tskhakaya	PIC SOL modelling for JET with impurities	
			17:00	0:15	0:05	Nami Li	The simulations of Grassy ELM characteristics and its impact on the divertor heat flux width for EAST	
			<b>Coffee Break 17:20</b>	<b>0:10</b>				
			<b>17:30</b>		<b>1:00</b>		<b>Discussion</b>	
			<b>Adjourn 18:30</b>					