22nd EFPW PROGRAMME

Operational limits: what do we know / what can we hope from plasma physics & fusion technology

SUNDAY 30 NOVEMBER				
16:00 18:00	Registration			
19:30	Welcome reception (details on page 7)			
MONDAY 1 DECEMBER				
8:30	Welcome			
Core plasma operational limits				
8:40	Introduction	I. Chapman (CCFE)		
8:50	How DEMO plasmas will be different to present day tokamak plasmas	R. Kemp (CCFE)		
9:20	Constraints set by burning plasma physics	Ph. Lauber (IPP)		
9:50	The operational limits of achieving necessary pedestal confinement	M. Beurskens (CCFE)		
10:20	Coffee			
10:50	Operational limits from core pressure and profile tailoring	I. Garcia (CEA)		
11:20	Operational limits set by heating and current drive actuators	E. Surrey (CCFE)		
11:50	Discussion			
12:45	Lunch			

Operational limits due to materials and disruptions			
14:00	Introduction	J.W. Coenen (FZJ)	
14:20	Constraints due to neutron irradiation	A. Moeslang (KIT)	
14:50	Control of impurities	Th. Puetterich (IPP)	
15:15	Coffee		
15:45	Constraints due to disruptions: understanding disruption causes and achieving acceptable disruption rates	P. de Vries (IO)	
16:10	Mitigating disruptions and runaways to acceptable material limits	R. Koslowski (FZJ)	
16:40	Discussion		
18:00	End		
	2 DECEMBER		
	2 DECEMBER Operational limits due to exh	aust	
		oust K. Krieger (IPP)	
TUESDAY	Operational limits due to exh	K. Krieger (IPP)	
TUESDAY :	Operational limits due to exh	K. Krieger (IPP)	
8:30 8:40	Operational limits due to exhaust of the limi	K. Krieger (IPP) D. Carralero (IPP)	

10:30	Degradation of W armour due to periodic power excursions	M. Wirtz (FZJ)			
10:55	Impact of He on divertor surfaces	H. Maier (IPP)			
11:20	Alternative magnetic configurations for improved divertor exhaust	B. Lipschultz (U York)			
11:45	Discussion				
12:45	Lunch				
Performance limits of PFC technologies					
14:00	Introduction	Ch.Bachmann (PMU)			
14:10	First wall thermo-hydraulic layout - need of reliable heat load specifications	L. Boccacini (KIT)			
14:40	First wall and limiter PFCs in DEMO	F. Arbeiter (KIT)			
15:10	Coffee				
15:40	Divertor PFC concepts considered in the DEMO divertor project	JH. You (IPP)			
16:05	Limitations of transient power loads on DEMO divertor and analysis of mitigation techniques	F. Maviglia (PMU)			
16:35	Tritium breeding ratio requirements and limitations in DEMO	P. Pereslavtsev (KIT)			
17:00	Discussion				
18:20	End				
20:00	Gala Dinner (details on page 9)				

WEDNESDAY 3 DECEMBER

	Integrated scenarios incorporating all operational limits	
8:30	Introduction	I. Nunes (IST)
8:40	Progress on preparation of the ITER baseline scenario	A. Sips (EC)
9:10	Control of integrated scenarios within operational limits	F. Rimini (CCFE)
9:40	Integrated scenarios with radiative cooling	F. Reimold (IPP)
10:10	Coffee	
10:40	How to extrapolate present scenarios to DEMO	R. Wenninger (PMU)
11:10	Discussion	
11:30	Adjourn	
12:45	Lunch	