

Agenda for the 19th European Fusion Physics Workshop
Germany, 5th to 7th December 2011
3D effects in Fusion Plasmas

Monday 5th of December 2011

Start	Finish	Time Allocated	Title of the Presentation	Presenter
08:30	08:40	00:10	Welcome and Introduction	
Session I: Effect of 3D external magnetic perturbations on Tokamak Plasmas				
08:40	08:45	00:05	Introduction	Peter de Vries
08:45	09:10	00:25	Overview of TF ripple experiments	Peter de Vries
09:10	09:35	00:25	Fast particle losses and heat loads due to TF ripple	Taina Kurki-Suonio (TEKES)
09:35	10:00	00:25	Detection of TF ripple induced fast ion losses and comparison with modelling	Vasily Kiptily (CCFE)
10:00	10:30	00:30	Coffee Break	
10:30	11:00	00:30	Impact of fast particle losses on plasma rotation	Antti Salmi (TEKES)
11:00	11:30	00:30	Neo-classical toroidal viscosity due to TF ripple and RMPs	Youwen Sun
11:30	12:30	01:00	Discussion	Peter de Vries
12:30	14:00	01:30	Lunch Break	
Session II: 3D Physics of Stellarators and Reversed field pinches and application to Tokamaks				
14:00	14:15	00:15	Introduction	Wilfred Cooper (CRPP)
14:15	14:40	00:25	Theoretical approach to energetic ion driven instabilities in 3D toroidal plasmas	Axel Konies (IPP-Greifswald)
14:40	15:05	00:25	Turbulence simulations in 3D geometry	E. Sanchez (CIEMAT)
15:05	15:30	00:25	The helical Reversed Field Pinch: observation and modelling	David Terranova (ENEA)
15:30	16:00	00:30	Coffee Break	
16:00	16:25	00:25	3D effects on MHD stability in MAST	Ian Chapman (CCFE)
16:25	16:50	00:25	The physics of helical core structures in tokamaks; theory and simulations	Jon Graves (CRPP)
16:50	17:15	00:25	Bifurcated helical core equilibrium in DIII-D	Oliver Schmitz (FZJ)
17:15	18:00	00:45	Discussion	Wilfred Cooper (CRPP)

18:15 - 19:45 Dinner

20:00 Evening Lecture

Tuesday 6th of December 2011

Start	Finish	Time Allocated	Title of the Presentation	Presenter
Session III: ELM mitigation with Resonant Magnetic Perturbations				
08:30	08:45	00:15	Introduction	Andrew Kirk (CCFE)
08:45	09:10	00:25	Overview of the experimental results	Yunfeng Liang (FZJ)
09:10	09:35	00:25	Why are ELMs suppressed by RMPs	Wolfgang Suttrop (IPP)
09:35	10:00	00:25	What is the physics of RMP penetration	Marina Becoulet (CEA)
10:00	10:30	00:30	Coffee Break	
10:30	10:55	00:25	Current modelling capabilities and what is missing	Ben Dudson (York University)
10:55	11:20	00:25	Effect of RMPs on the L-H transition	Elena De La Luna (CIEMAT/EFDA-CSU)
11:20	11:45	00:25	Candidate mechanisms for ELM mitigation on ITER and future devices	Alberto Loarte (ITER)
11:45	12:30	00:45	Discussion	Andrew Kirk (CCFE)
12:30	14:00	01:30	Lunch Break	
Session IV: 3D effects on Divertor, Scrape of Layer and Plasma Wall interaction				
14:00	14:15	00:15	Introduction	Oliver Schmitz (FZJ)
14:15	14:40	00:25	Introduction to 3D SOL structure and 3D divertor/first wall conditions in stellarators and tokamaks - a comparison	Y. Feng (IPP Greifswald)
14:40	15:05	00:25	Edge structure, flows and plasma wall interaction in reversed field pinches - from the quasi-helical to the single helical axis state	G. Spizzo (ENEA)
15:05	15:30	00:25	Impact of internal fields or edge instabilities on the SOL and divertor plasma structure in tokamaks	T. Eich (IPP)
15:30	16:00	00:30	Coffee Break	
16:00	16:30	00:30	3D SOL and divertor flux structure during application of RMP fields for ELM control in tokamaks	M. Jakubowski (IPP Greifswald)
16:30	17:00	00:30	3D SOL and divertor flux structure during application of RMP fields for ELM control tokamaks - numerical analysis and prediction for the erosion/deposition balance	P. Cahyna (IPP-CR)
17:00	18:00	01:00	Discussion	Oliver Schmitz (FZJ)

20:00 Workshop Dinner

Wednesday 7th of December 2011

Start	Finish	Time Allocated	Title of the Presentation	Presenter
Session V: 3D aspects of Disruptions				
08:30	08:45	00:15	Introduction	Tünde Fülöp (VR)
08:45	09:10	00:25	Error fields, Locked modes and implications to disruptions	Holger Reimerdes (CRPP)
09:10	09:35	00:25	Toroidal asymmetries of heat loads and vessel forces	Tim Hender (CCFE)
09:35	10:00	00:25	Disruption prediction	Gabriella Pautasso (IPP)
10:00	10:30	00:30	Coffee Break	
10:30	11:00	00:30	Localised effects of massive gas mitigation and killer pellets	Francois Saint-Laurent (CEA)
11:00	11:30	00:30	Effect of RMPs on Runaway Electrons	Gergely Papp (HAS/VR)
11:30	12:30	01:00	Discussion	Tünde Fülöp (VR)
12:30	14:00	01:30	Lunch Break	

14:30		Departure for W7-X excursion (bus transfer)		
15:30	18:30	Visit of W7-X (incl. a snack buffet)		
18:30		Bus transfer to hotels in Greifswald		