

PROGRAMME FOR THE
JOINT VARENNA - LAUSANNE INTERNATIONAL WORKSHOP
ON
"THEORY OF FUSION PLASMAS"

Villa Monastero, Varenna, Italy
27 - 31 August 2012

SUNDAY August 26, 2012

15:00 - 19:00 Registration in Villa Monastero

MONDAY, August 27, 2012

9:00		<i>Welcome</i>	<i>M. Lontano</i>
9:10	1	V. Tribaldos	Bootstrap Current Calculations in TJ-II Stellarator
9:55	2	J. M. García-Regaña	Neoclassical impurity transport in stellarator geometry
10:40		<i>Coffee break</i>	
11:10	3	I. Pusztai	Turbulent transport of impurities and their effect on energy confinement
11:55	4	Y. Xiao	Convective motion in low frequency trapped electron mode turbulence
12:40		<i>Group Photo</i>	
12:50		<i>Lunch</i>	
15:00	5	V. Lakhin	Effect of Plasma Rotation on Low-Frequency Continuous Modes in Axisymmetric Tokamaks
15:45	6	N. Bertelli	The effects of the scattering by edge plasma density fluctuations on lower hybrid wave propagation
16:30		<i>Coffee break</i>	
17:00	7	A.G. Shalashov	Linear coupling of electron cyclotron waves in toroidal plasmas: out of the bounds of one-dimensional approach and ray-tracing
17:45		<i>end</i>	
19:30		Pre-dinner Welcome Party (<i>Hotel Royal Victoria</i>)	

TUESDAY, August 28, 2012

9:00	8	R. Fitzpatrick	Nonlinear Stability of Locked Magnetic Islands in Stellarators
9:45	9	J. Graves	Kinetic-MHD theory and the effects of energetic ions on tokamak stability limits
10:30		<i>Coffee break</i>	
11:00	10	H. Lütjens	Nonlinear simulations of macro-instabilities in tokamak plasmas beyond MHD
11:45	11	E. Fable	Dynamical coupling between magnetic equilibrium and transport in tokamak scenario modelling, with application to
12:30		<i>Lunch</i>	
15:00		Poster session: P1 - P18 + P-pd1-pd2 in Villa Monastero	
16:00		<i>Coffee break</i>	
18:00		<i>end poster session</i>	

WEDNESDAY, August 29, 2012

9:00	12	N. Ferraro	Modeling Edge Plasma Response to Non-Axisymmetric Magnetic Fields In Tokamaks
9:45	13	F. Militello	Simulations of Edge and Scrape Off Layer turbulence MAST plasmas
10:30		<i>Coffee break</i>	
11:00	14	D. Dickinson	Kinetic instabilities that limit beta in the edge of a tokamak plasma: a picture of the H-mode pedestal
11:45	15	C. Björkas	Also pure metals can sputter molecules: sputtering of beryllium hydride by fusion plasma-wall interactions
12:30		<i>Lunch</i>	
20:00		Conference Dinner at Villa Cipressi	

THURSDAY, August 30, 2012

9:00	16	I. Holod	Gyrokinetic Particle Simulation of Kinetic-MHD Processes in Fusion Plasmas
9:45	17	L. J. Höök	Variance reduction methods for numerical solution of diffusion processes in fusion plasmas
10:30		<i>Coffee break</i>	
11:00	18	T. Vernay	Collisional effects on TEM in global simulations
11:45	19	A. Strugarek	Sheared flows and transport barriers: from tokamaks to stars
12:30		<i>Lunch</i>	
15:00		Poster session: P19 - P37 + P-pd3-pd4 in Villa Monastero	
16:00		<i>Coffee break</i>	
18:00		<i>end poster session</i>	
21:30		Concert at Villa Monastero: Classic Guitar	

FRIDAY, August 31, 2012

9:00	20	T. M. Bird	The effect of 3-D shielded resonant magnetic perturbations on kinetic ballooning modes
9:45	21	N. Aiba	Impacts of plasma rotation on MHD physics in tokamaks - Theory and numerical applications -
10:30		<i>Coffee break</i>	
11:00	22	A. Zocco	Unified Theory of the semi-collisional tearing mode and internal kink mode; implications for sawtooth modelling
11:45	23	M. Tardocchi	Diagnosis of physical parameters of fast particles in burning plasmas with high resolution neutron and gamma-ray
12:30		<i>Closing session</i>	
12:40		<i>end</i>	