

**PROGRAMME**

FOR THE  
JOINT VARENNA – LAUSANNE INTERNATIONAL WORKSHOP

ON

**“THEORY OF FUSION PLASMAS”**

Villa Monastero, Varenna, Italy  
August 30 – September 3, 2010

**Sunday, August 29, 2010**

15.00 – 19.00 Registration in Villa Monastero

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**Monday, August 30, 2010**

09:00		<u>Welcome</u>	<b>X. Garbet</b>
09:10	I-1	<b>E. Lazzaro</b>	Magnetic Reconnection Controlled by External Current Drive
09:55	I-2	<b>A. Reiman</b>	3D Equilibria with Stochastic Regions Supporting Finite Pressure Gradients
10:40		<u>Coffee break</u>	
11:10	I-3	<b>P. Xanthopoulos</b>	Gyrokinetic Simulations of Turbulence in Stellarators: the Effect of 3D Shaping on Transport
11:55	I-4	<b>I. Ishizaki</b>	MHD Simulation on Pellet Plasmoid in LHD Plasmas
12:40		<u>Group photo</u>	
15:00	I-5	<b>B. Nevins</b>	Magnetic Stochasticity in Gyrokinetic Simulations of Plasma Microturbulence
15:45	I-6	<b>W. A. Hornsby</b>	Multi-Scale Dynamics in Fusion Plasmas: on the Coupling Between Micro Turbulence and Meso Scale Magnetic Structures
16:30		<u>Coffee break</u>	
17:00	I-7	<b>P. Beyer</b>	Turbulence Simulations of Transport Barrier Relaxations in Presence of Resonant Magnetic Perturbations at the Tokamak Edge
17:45		<u>End</u>	
19:30			Pre-dinner Welcome party - Hotel Royal Victoria

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**Tuesday, August 31, 2010**

09:00	I-8	<b>B. Breizman</b>	Energetic Particle Physics
09:45	I-9	<b>M. Albergante</b>	Numerical Modelling of the Electromagnetic Turbulent Transport of Energetic Ions in Burning Plasmas
10:30		<u>Coffee break</u>	
10:50	I-10	<b>B. Dudson</b>	Nonlinear MHD Modelling of ELMs and Their Control
11:35	I-11	<b>S. Pamela</b>	Simulations of JET-Like ELMs with JOREK
12:20	I-12	<b>C. Hegna</b>	Plasma Rotation in Nearly Symmetric Toroidal Confinement Devices
13:05		<u>Lunch</u>	
15:00		<b>Poster Session</b>	P-1 – P-20 in Villa Monastero
16:00		<u>Coffee break</u>	
18:00		End	

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**Wednesday, September 1, 2010**

09:00	I-13	<b>L. Chen</b>	Theoretical Studies of GAM Dynamics
09:45	I-14	<b>L. Garcia</b>	Topological Characterization of Flow Structures in Plasma Turbulence
10:30		<u>Coffee break</u>	
10:50	I-15	<b>T. Goerler</b>	Nonlocal Effects in Gyrokinetic Turbulence Simulations Using GENE
11:35	I-16	<b>Y. Lin</b>	Investigation of Magnetic Reconnection Using Gyrokinetic Electron and Fully Kinetic Ion Particle Simulation Model
12:20	I-17	<b>P. Catto</b>	Kinetic Effects in the Pedestal of a Tokamak
13:05		<u>Lunch</u>	
16:15			Departure for the excursion to visit Piona Cistercian Abbey (departure from Varenna main square, excursion and dinner included in registration fee). Dinner at the Restaurant “La Conca Azzurra” in Colico Olgiasca on a nice promontory.

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**Thursday, September 2, 2010**

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09:15	I-18	<b>M. Romanelli</b>	Orbit Simulations of Particle Transport in Spherical Tokamaks
10:00	I-19	<b>S. Satake</b>	Calculation of Neoclassical Toroidal Viscosity in Tokamaks with Broken Toroidal Symmetry
10:45		Coffee break	
11:15	I-20	<b>M. Barnes</b>	Momentum Transport and Turbulence Suppression in Fusion Plasmas
12:00	I-21	<b>F.J. Casson</b>	Gyrokinetic Turbulence in the Presence of Strong Rotation
12:45		Lunch	
15:00		<b>Poster Session</b>	P-21 – P-38 in Villa Monastero
16:00		Coffee break	
18:00		End	
21:30		Concert for Baroque Flute and Harpischord in Villa Monastero	

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**Friday, September 3, 2010**

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09:00	I-22	<b>W. Wang</b>	What We Have Learned About Intrinsic Rotation From Global Gyrokinetic Simulations
09:45	I-23	<b>V. P. Petrzilka</b>	Theory of Fast Particle Generation in Front of LH Grills
10:30		Coffee break	
11:00	I-24	<b>M. Jucker</b>	Integrated Modeling for Ion Cyclotron Resonant Heating in Toroidal Systems
11:45	I-25	<b>V. P. Pastukhov</b>	Effective Fluid Model of Turbulent Dynamics and Transport in Tokamak Core Plasmas
12:30		Closing session	
12:45		End	