PROGRAMME

FOR THE

JOINT VARENNA - LAUSANNE INTERNATIONAL WORKSHOP

ON

"THEORY OF FUSION PLASMAS"

Villa Monastero, Varenna, Italy

1 - 5 September 2014

SUNDAY August 31, 2014

15:00 - 19:00 Registration in Villa Monastero

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MONDAY, September 1, 2014

9:00		*Welcome*	*M. Lontano*
9:10	I-1	**D. Moulton**	Physical basis for the free-streaming model of ELM parallel transport
9:55	I-2	P. Tamain (**P. Ghendrih**)	Multi-scale auto-organization of edge plasma turbulent transport in 3D global simulations
10:40		*Coffee break*	
11:10	I-3	**F. Halpern**	Plasma turbulence in the tokamak SOL
11:55	I-4	**L. Shi**	Comparison of Results from Simulations including 3D Synthetic Reflectometry Diagnostics with Edge Turbulence Features Observed in Reflectometry Measurements in NSTX
12:40		*Group Photo*	
12:50		*Lunch*	
15:00	I-5	**L. Figini**	Assessing the ITER Electron Cyclotron Heating System Capabilities with Integrated Modelling
15:45	I-6	**S. Murakami**	Integrated transport modeling of high ion température plasma in LHD
16:30		*Coffee break*	
17:00	I-7	**G.G. Plunk**	Properties of ITG Turbulence in Wendelstein-7X
17:45		*End*	
19:30		Pre-dinner Welcome Party (*Hotel Villa Cipressi*)	

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TUESDAY, September 2, 2014

9:00	I-8	**F. Parra**	Intrinsic rotation in tokamaks
9:45	I-9	**R. Ganesh**	Global Gyrokinetic Stability of Collisionless Microtearing Modes in Large Aspect Ratio Tokamaks
10:30		*Coffee break*	
11:00	I-10	**E. Belli**	Multi-species Non-axisymmetric and Poloidal Asymmetry Effects on the Neoclassical Transport in Tokamak Plasmas
11:45	I-11	**X. Wang**	Studies of nonlinear dynamics of wave-particle interactions in Tokamak plasmas based on Hamiltonian mapping techniques
12:30		*Lunch*	
15:00		**Poster session: P1 - P19 in Villa Monastero**	
16:00		*Coffee break*	
18:00		*End poster session*	
21:30		Violin concert at Villa Monastero	

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WEDNESDAY, September 3, 2014

9:00	I-12	**M. Cole**	Simulations of Alfvén eigenmodes in tokamaks and stellarators
9:45	I-13	**P. Lauber**	Kinetic models for energetic particle physics in tokamaks - verifications, validation and predictions for ITER
10:30		*Coffee break*	
11:00	I-14	**D. Pfefferlé**	Fast ion transport during large scale saturated MHD activity
11:45	I-15	**B. N. Breizman**	Relativistic Runaway Electrons
12:30		*Lunch*	

17:50	Meeting point for tour+conference dinner: main square (Piazza S. Giorgio, in front of the Hotel Royal Victoria)
18:00	Trip on boat
19:15	Aperitive and dinner at Grand Hotel Cadenabbia

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THURSDAY, September 4, 2014

9:00	I-16	**G. Manfredi**	Solid state plasmas
9:45	I-17	**C. Leland**	Symplectic Algorithms for the Integration of Guiding Center Test-Particle Trajectories
10:30		*Coffee break*	
11:00	I-18	**C. Ham**	Tokamak equilibria and edge stability when non-axisymmetric fields are applied
11:45	I-19	**S. Usami**	Multi-Hierarchy Simulation of Collisionless Driven Reconnection by Real-Space Decomposition
12:30		*Lunch*	

15:00	**Poster session: P20 - P37 in Villa Monastero**
16:00	*Coffee break*
18:00	*End poster session*

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FRIDAY, September 5, 2014

9:00	I-20	**W.A. Hornsby**	Tearing modes within the gyro-kinetic framework
9:45	I-21	**F. Hariri**	3D Turbulence Simulations using a Singularity-Free Flux-Coordinate Independent Field-Aligned Approach
10:30		*Coffee break*	
11:00	I-22	**R. Nyqvist**	Formation of Holes and Clumps in Energetic Particle Phase Space
11:45	I-23	**D. Brunetti**	Fast growing instabilities and non-linear saturated states in hybrid tokamak and RFP plasmas
12:30		*Closing session*	
12:40		*End*	