

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

Villa Monastero, Varenna, Italy
29 August -2 September 2016

SUNDAY August 28, 2016

15:00 - 19:00 Registration in Villa Monastero

MONDAY, August 29, 2016

- | | | |
|-------|--|---|
| 9:00 | <i>Welcome</i> | <i>M. Lontano / G. Gorini</i> |
| 9:10 | B. Lyons | Extended magnetohydrodynamic insights into edge-localized mode suppression/mitigation by three-dimensional magnetic perturbations |
| 9:55 | D. Ryan | Modelling-based high β_N RMP spectrum optimization for ELM mitigation |
| 10:40 | <i>Coffee break</i> | |
| 11:10 | A. Merle | Pedestal properties of H-modes with negative triangularity using the EPED model |
| 11:55 | S. Saarelma | Non-local analysis of kinetic ballooning modes in pedestal |
| 12:40 | <i>Group Photo in Villa Monastero's garden</i> | |
| 12:50 | <i>Lunch</i> | |
| 15:00 | O. Février | MHD simulations of magnetic island stabilization |
| 15:45 | J. Loizu | 3D MHD equilibria with current sheets, magnetic islands, and chaos in stellarators and tokamaks |
| 16:30 | <i>Coffee break</i> | |
| 17:00 | M. Furukawa | Simulated annealing for computing stationary state of ideal MHD |
| 17:45 | <i>end</i> | |
| 19:30 | Pre-dinner Welcome Party (<i>Hotel Villa Cipressi</i>) | |

TUESDAY, August 30, 2016

- | | | |
|-------|---|---|
| 9:00 | A. Cardinali | Quasilinear Analysis of Lower Hybrid Current Drive in ITER and DEMO |
| 9:45 | Y. Kazakov | Applications of Three-Ion ICRF Heating for ITER |
| 10:30 | <i>Coffee break</i> | |
| 10:45 | J. Faustin | The challenge of auxiliary fast ion tail generation in Wendelstein 7-X |
| 11:30 | A. Yu. Popov | Explanation of anomalous backscattering and absorption in second harmonic ECRH experiments by low-threshold two plasmon decay |
| 12:15 | <i>Lunch</i> | |
| 14:00 | Poster session: P1 - P20 in Villa Monastero + Ppd1-2 | |
| 15:00 | <i>Coffee break</i> | |
| 17:00 | <i>end poster session</i> | |
| 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 | |

WEDNESDAY, August 31, 2016

9:00	N. Tronko	Verification of Gyrokinetic codes: theoretical background and applications
9:45	J. Citrin	Multi-channel flux-driven quasilinear turbulent transport prediction over many confinement times
10:30	B. Baiocchi	Simulations of ITER H-mode scenarios using the new generation of quasi-linear models
11:15	<i>Coffee break</i>	
11:35	P. Niskala	Coupling experimental and computational studies of the isotope effect in turbulent particle transport
12:20	M. Nunami	Simulation studies on turbulent transport of multi-ion-species plasmas in helical systems
13:05	<i>Lunch</i>	

THURSDAY, September 1, 2016

9:00	B. Dudson	Predictive modelling of turbulence and transport in the edge plasma of magnetic confinement devices
9:45	D. Hatch	Gyrokinetic simulations of the JET-ILW pedestal
10:30	<i>Coffee break</i>	
11:00	C. Wersal	Impact of neutral atoms on plasma turbulence in the tokamak edge region
11:45	M. V. Umansky	Plasma Flows and Detachment in Innovative Divertor Configurations
12:30	<i>Lunch</i>	
15:00	Poster session: P21 - P38 + P-pd3-4 in Villa Monastero	
16:00	<i>Coffee break</i>	
18:00	<i>end poster session</i>	
18:50	Piano concert at Villa Cipressi	
20:00	After-concert Party (<i>Hotel Villa Cipressi</i>)	

FRIDAY, September 2, 2016

9:00	A. Biancalani	Nonlinear interplay of Alfvén instabilities and energetic particles in tokamaks
9:45	M. Fitzgerald	TAE-induced alpha-particle transport in the Q=10 ITER baseline scenario
10:30	<i>Coffee break</i>	
11:00	H. Smith	Neoclassical toroidal viscous torque due to non-axisymmetric magnetic fields in tokamaks
11:45	J. Ball	Up-down asymmetric designs for tokamaks that drive large intrinsic rotation
12:30	<i>Closing session</i>	
12:40	<i>end</i>	