

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

Villa Monastero, Varenna, Italy
August 30 - September 3, 2004

MONDAY, August 30, 2004

| | | | |
|-------|-----|--|------------|
| 9:15 | | <i>Welcome</i> | CONNOR |
| | | | F. ZONCA |
| 9:25 | I-2 | Multiple space-time structures of Ion temperature gradient driven turbulence | |
| | | | R. HATZKY |
| 10:10 | P-9 | Electromagnetic PIC simulations with a df method constructing the adiabatic cancellation current | |
| 10:30 | | <i>Coffee break</i> | |
| | | | C. ROACH |
| 11:00 | I-3 | Gyrokinetic microstability in spherical tokamaks | |
| | | | R. GANESH |
| 11:45 | I-4 | A full radius gyrokinetic stability model for finite beta tokamaks | |
| 12:30 | | <i>Group Photo</i> | |
| | | | J. CANDY |
| 14:30 | I-5 | New gyrokinetic frontiers : particle and impurity transport, and simulation at fixed flux | |
| | | | Z. LIN |
| 15:15 | I-6 | Full Torus gyrokinetic particle simulation of plasma turbulence | |
| 16:00 | | <i>Coffee break</i> | |
| | | | A. BOTTINO |
| 16:30 | I-7 | Recent advances in nonlinear gyrokinetic PIC simulations in tokamak geometry | |
| 17:15 | | <i>End</i> | |
| 21:30 | | <i>Welcome Party at Hotel Royal Victoria</i> | |

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TUESDAY, August 31, 2004

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|-------|------|--|
| | | L.-G. ERIKSSON |
| 9:00 | I-8 | Simulation of runaway electrons during tokamak disruptions |
| | | S. KRASHENINNIKOV |
| 9:45 | I-9 | Dust dynamics in magnetic fusion devices |
| 10:30 | | <i>Coffee break</i> |
| | | D. TSKHAKAYA |
| 11:00 | I-10 | Kinetic simulations of the tokamak scrape-off layer |
| | | P. BEYER |
| 11:45 | I-11 | Simulations and modelling of transport barrier relaxations in tokamak edge plasmas |
| 12:30 | | <i>Lunch</i> |
| 15:00 | | Poster session: P1 - P17 in Villa Monastero |
| 16:00 | | <i>Coffee break</i> |
| 18:00 | | <i>End</i> |

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WEDNESDAY, September 1, 2004

| | | |
|-------|------|--|
| | | T. BERGKVIST |
| | | Self-consistent calculations of the distribution function and wave field during ICRF heating and global Alfvén wave excitation |
| 9:00 | I-12 | |
| | | O. MAJ |
| | | Asymptotic solutions of pseudo differential wave equations: invariant WKB formulation, a non-canonical phase space representation and paraxial propagation of beam-like wave objects |
| 9:45 | I-13 | |
| 10:30 | | <i>Coffee break</i> |
| | | G.V. PEREVERZEV |
| | | Beam tracing technique : applications for RF heating and stability in tokamak |
| 11:00 | I-14 | |
| | | D. BATCHELOR |
| | | Integrated modelling of wave-plasma interactions in fusion systems |
| 11:45 | I-15 | |
| 12:30 | | <i>Lunch</i> |
| | | K.M. RANTAMÄKI |
| | | Particle-in-cell simulations of the near-field of a lower hybrid grill |
| 14:30 | I-16 | |
| | | C.Z. CHENG |
| | | Kinetic modifications to MHD phenomena in toroidal plasmas |
| 15:15 | I-17 | |
| 16:00 | | <i>Coffee and end of session</i> |
| 17:30 | | <i>Departure to Isola Comacina from Varenna Harbor</i> |

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THURSDAY, September 2, 2004

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|-------|------|--|
| | | R. COELHO |
| 9:00 | I-18 | Parity and topology of tearing mode perturbations in a cylindrical tokamak |
| | | R. FITZPATRICK |
| 9:45 | I-19 | Two-fluid magnetic reconnection with arbitrary guid-field |
| 10:30 | | <i>Coffee break</i> |
| | | Y. ISHIR |
| 11:00 | I-20 | Nonlinear destabilization and explosive growth of double tearing modes |
| | | V. D. PUSTOVITOV |
| 11:45 | I-21 | Error field amplification in tokamaks |
| 12:30 | | <i>Lunch</i> |
| 15:00 | | Poster session: P18 - P34 in Villa Monastero |
| 16:00 | | <i>Coffee break</i> |
| 18:00 | | <i>End</i> |
| 21:30 | | <i>Concert at Villa Monastero</i> |

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FRIDAY, September 3, 2004

| | | |
|-------|------|--|
| 9:00 | I-22 | A. S. KINGSEP EMHD dynamics of pulsed plasmas |
| 9:45 | I-23 | L. KAMP Flows in toroidal steady states of visco-resistive magneto hydrodynamics |
| 10:30 | | <i>Coffee break</i> |
| 11:00 | P-14 | P. POPOVICH Alfvén and IC frequency oscillations in 2D and 3D geometries calculated with a global 3D code |
| 11:45 | | <i>Closing session</i> |