

JOINT VARENNA - LAUSANNE INTERNATIONAL WORKSHOP
"THEORY OF FUSION PLASMAS"

*Villa Monastero, Varenna, Italy
August 27 - 30, 2002*

PROGRAMME

TUESDAY, August 27, 2002

09:15 *Welcome* CONNOR

09:25 - 10:00 I-1 PALUMBO
Geometrical aspects of MHS confinement

10:00 - 10:45 I-2 TOKAR
Physics of edge and core interplay in radiative improved mode

10:45 - 11:15 *Break*

11:15 - 12:00 I-3 GHENDRIH
Avalanche transport in the edge plasmas

12:00 - 12:45 I-4 CONNOR
Theories of density limits

12:45 *Group photo*

14:45 - 15:30 I-5 GRASSO
Stabilisation of drift-tearing modes

15:30 - 16:15 I-6 LAZZARO
Physics of driven reconnection and rotation in tokamak plasmas

16:15 - 16:45 *Break*

TUESDAY, August 27, 2002 (*continued*)

16:45 - 17:30 I-7 DE BLANK
Collisionless magnetic reconnection with temperature gradients

17:30 - 18:15 I-8 PACCAGNELLA

Nonlinear magneto-hydro-dynamic
simulations for the reversed field pinch with active feedback

21:30 Hotel Royal Victoria **Welcome party**

WEDNESDAY, August 28, 2002

09:00 - 09:45 I-9 TOKUDA

Tokamak MHD stability: Newcomb equation and boundary layer equations

09:45 - 10:30 I-10 HUYSMANS

MHD stability of 'Current Hole' plasmas

10:30 - 11:00 *Break*

11:00 - 11:45 I-11 APPEL

Modelling of Alfvénic activity in the MAST tokamak

11:45 - 12:30 I-12 MANICKAM

Theory of modeling challenges from the NSTX program

14:00 - 16:20 POSTER SESSION 1: P-1 to P-13

16:30 **Departure** from Varenna Main Square to Ponte in Valtellina

18:00 **Wine tasting** at the Wine Cellar "Cantine Nino Negri" and

19:30 **Banquet** at the "Ristorante Cerere"

THURSDAY, August 29, 2002

09:00 - 09:45 I-13 DENDY

Nonclassical transport in fusion and astrophysical plasma turbulence

09:45 - 10:30 I-14 JENKO

Simulation and theory of electromagnetic ETG turbulence

10:30 - 11:00 *Break*

11:00 - 11:45 I-15 ALLFREY

Role of self-generated and externally applied radial electric fields in the development of ITG driven modes

11:45 - 12:30 I-16 ILGISONIS

Transport barrier in a tokamak as a bifurcation of the plasma equilibrium

12:30 - 13:15 I-17 SANCHEZ

Radial structure of the runaway electron diffusion coefficient in tokamaks

15:30 - 18:30 POSTER SESSION 1: P-14 to P-31

21.30 Villa Monastero *Concert*

FRIDAY, August 30, 2002

09:00 - 09:45 I-18 TSKHAKAYA

Particle-in-cell and fluid simulations of particle acceleration in front of lower hybrid grills

09:45 - 10:30 I-19 JOHNSON

Numerical modelling of ICRH induced torques

10:30 - 11:00 *Break*

FRIDAY, August 30, 2002 (*continued*)

11:00 - 11:45 I-20 CHAN

Fast ion transport and plasma rotation in ion-cyclotron heated plasmas

11:45 - 12:30 I-21 TERRY

Saturation of zonal flows and trapped electron turbulence by nonlinear coupling to damped eigenmode

12:30 *Closing Workshop*