

# NONLINEAR ANALYSIS & APPLICATIONS : VARIATIONAL METHODS AND NONLINEAR WAVES

Scientific Committee : A. Ambrosetti (SISSA), M.J. Esteban (Paris-Dauphine), C.A. Stuart (EPFL), J.F. Toland (Bath)

## WORKSHOP BIFURCATION THEORY AND NONLINEAR WAVES

<b>Speakers</b>	<b>Title</b>	<b>Schedule</b>	<b>Day</b>
Toland John F.	Variational Formulation of the Standing-wave Problem	09.15 - 10.00	21.06.04
Guido Schneider	Construction of modulating pulses in quasilinear wave equations	10.30 - 11.15	21-06.04
Jean-Claude Saut	The transonic limit of the Gross-Pitaevskii equation	11.15 - 12.00	21.06.04
Mariana Haragus	Corner defects in almost planar interface propagation	14.00 - 14.45	21.06.04
Herbert Amann	On the onset of instability in heat conducting flows	14.45 - 15.30	21.06.04
Patrick Bernard	Multibump homoclinic orbits in some bifurcations	16.00 - 16.45	21.06.04
G�rard Iooss (travail en collaboration avec J. Toland et P. Plotnikov)	Existence of gravity standing waves	09.15 - 10.00	22.06.04
Pavel Plotnikov	Small divisors problem and multiscaling in the theory of standing waves	10.30 - 11.15	22.06.04
Thierry Gallay	Global stability of travelling waves by energy methods	11.15 - 12.00	22.06.04
Wolfgang Reichel	Uniqueness theorems in the calculus of variations by the method of transformation groups	14.00 - 14.45	22.06.04
McLeod Brice	Supping syrup off a spoon	14.45 - 15.30	22.06.04
Jesus Hernandez	Linear and nonlinear singular elliptic problems	16.00 - 16.45	22.06.04
Thomas Wagenknecht	When gap solitons become embedded solitons	09.15 - 11.00	23.06.04
Michael Struwe	Uniqueness for nonlinear wave equations	10.30 - 11.15	23.06.04
Eug�ne Shargorodsky	Complex methods for Bernoulli free-boundary problems	11.15 - 12.00	23.06.04
Edward Fraenkel	On steady vortex rings with swirl and a mean helicity	09.15 - 10.00	24.06.04
Matthieu Barrandon	Reversible bifurcation of homoclinic solutions in presence of an essential spectrum	10.30 - 11.15	24.06.04
Tom Bridges	Nonlinear Waves (titre provisoire)	11.15 - 12.00	24.06.04
Boris Buffoni	Conditional energetic stability of gravity solitary waves in the presence of weak surface tension	14.00 - 14.45	24.06.04
Eric S�r�	A nonlinear model of the polarized vacuum	14.45 - 15.30	24.06.04
Massimiliano Berti	Periodic solutions of nonlinear Hamiltonian PDEs	16.00 - 16.45	24.06.04
Klaus Kirchg�ssner	Dispersive Dynamics of Supercritical Euler-Flow in a Gravity Driven Layer	09.15 - 10.00	25.06.04.
Eric Lombardi	Spectral stability of wave trains in the Kawahara equation	10.30 - 11.15	25.06.04
Mark Groves	Three-dimensional solitary gravity-capillary water waves	11.15 - 12.00	25.06.04

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