

CPNLW-09 Solitons in their Roaring Forties : Coherence and Persistence in Nonlinear Waves

January 6-9 2009 University of Nice, France

PROGRAM:

Thursday January 8th

Laser-matter interaction and nonlinear optics II, chairman M. P. Soerensen

9:00 9:30 Luc Berge

Femtosecond filaments for pulse compression: Simulating a complete experiment

9:30 9:55 Sonia Boscolo

Parabolic optical pulses under the action of the third-order dispersion

9:55 10:20 Gilbert Reinisch

Deriving the fine structure constant from quantum transitions between nonlinear eigenstates

10:20 10:45 Brenton LeMesurier

Modelling Pulses in Molecular Chains and Conservative Time-Discrete Hamiltonian Systems

10:45 11:05 —————BREAK—————

Dissipative solitons and nonlinear resonances II, chairman R. Grimshaw

11:05 11:35 Mads Peter Soerensen

The effect of noise and coupling on beta cell excitation dynamics

11:35 12:00 Mustapha Tlidi

Dissipative localized structures and self-organization

- 12:00 12:25** Efim Pelinovski
Modelling resonances in fragmented solids
- 12:25 12:50** A. G. Vladimirov
Enhancement of interaction of dissipative solitons above self-pulsing instability treshold
- 13:00 14:30** —————LUNCH BREAK—————
Solitons: general properties and geometry II, chairman E. Pelinovski
- 14:15 14:40** Annalisa Calini
KdV-Type Flows on Star-Shaped Curves
- 14:40 15:05** David Brander
Soliton methods in Geometry
- 15:05 15:30** Jakub Lis
Q-ball Ansatz in the scalar nonlinear electrodynamics - the case of the V-shaped matter potential
- 15:30 15:55** Michel Rascle
Nonlinear Waves in Mathematical Models of Traffic Flow
- 15:55 16:15** —————BREAK—————
- 16:15 16:40** Silvana DeLillo
An analytical model for synthetic- and bio- polymers based on continuous elastic rods: general framework and circular helix solutions
- 19:00** Welcome cocktail and conference dinner at the HOTEL MERIDIEN

Friday January 9th

Laser-matter interaction and nonlinear optics III, chairman N. Akhmediev

- 9:00 9:30** Arnaud Mussot
Optical rogue waves and giant solitons
- 9:30 9:55** Sergey Skupin
Azimuthons in nonlocal nonlinear media

- 9:55 10:20** Wieslaw Krolikowski
 Optical solitons in nonlocal nonlinear media
Integrability II chairman I. Barashenkov
- 10:20 10:45** Boris Konopelchenko,
 On operator representations of integrable equations
- 10:45 11:05** —————BREAK—————
- 11:05 11:30** Robert Conte
 Analytic patterns of the four-wave mixing model
Solitons and lattices, chairman K. Khusnutdinova
- 11:30 11:55** Guillaume James
 Time-periodic oscillations in weakly inhomogeneous nonlinear lattices
- 11:55 12:20** Nikos Efremidis
 Disordered lattice solitons
Nonlinear excitations in complex systems II
- 12:20 12:50** Harvey Segur
 Explosive instability due to 3-wave or 4-wave mixing
- 13:00 14:30** —————LUNCH BREAK—————
- 14:30 15:00** Norman Zabusky
 Inhomogeneous and complex flows : Progress and Promise at high and
 low Reynolds number
- 15:00 15:10** Conclusion of the Conference