

## Schedule

### Tuesday, 22.04.2014

18:00-19:15: Registration, Hotel Sommerhaus, Lobby

19:30: Welcome dinner, Hotel Sommerhaus, 13-th floor

### Wednesday, 23.04.2014

08:30-09:00: Registration

09:05-09:25: Opening ceremony

09:30-10:10: Liao, On the unified wave model for smooth and peaked waves in finite water depth

10:15-10:40: Coffee break

10:45-11:25: Shrira, Modeling fast evolution of wave turbulence with DNS and the 'Generalized Kinetic Equation'

11:30-12:10: Falcon, Wave turbulence on the surface of a fluid

12:10-14:00: Lunch

14:00-14:55: Hani, Mathematical problems in wave turbulence theory

15:00-15:40: Tobisch, What can go wrong when applying wave turbulence theory

15:40-16:10: Coffee break

16:10-16:50: Shemer, On the relevance of nonlinear Schrödinger breathers to evolution and breaking of steep (rogue) waves

16:55-17:35: Waseda, Observational study of horizontal velocity of extreme waves

17:40-18:00: Didelunkova, Nonlinear dynamics of the coastal zone with applications to marine hazards

### Thursday, 24.04.2014

09:00-09:40: Onorato, On the thermalization of the  $\alpha$ -Fermi-Pasta-Ulam system

09:45-10:25: Cao, Phononic frequency combs via nonlinear resonances

10:25-11:00: Coffee break

11:00-11:40: Randoux, Intermittency in an integrable optical wave system

11:45-12:15: Suret, Extreme events: experiments in optical fibers and numerical simulations of one dimensional

12:20-14:30: Lunch

14:35-15:15: Amiranashvili, Extreme waves in optical fibers

15:20-16:00: Chabchoub, Time-reversal generation of NLS rogue wave solutions

16:00-16:30: Coffee break

16:30-18:00: Round table "Towards a unifying concept of wave interaction?"

**Friday, 25.04.2014**

09:00-09:40 Dutykh, Capillary-gravity waves in nonlinear shallow water and full Euler equations

09:45-10:25 Grimshaw, Generation of Peregrine breathers in the nonlinear Schrodinger equation

10:30-11:00: Group photo & Coffee break

11:05-11:45: Proment, Vortex knots in a Bose-Einstein condensate

11:50-12:20: Talipova, Breathers of the internal waves

12:20-14:20: Lunch

14:25-15:05: Deagasperis, Construction of rogue wave profiles for resonant interaction models

15:10-15:50 Obuse, Long-time behavior of zonal flows in forced two-dimensional turbulence on a rotating sphere

15:55-16:25: Jamin, Generation of surface waves by an underwater moving bottom: experiments and application to

Tsunami modeling

16:30-...: Excursion and conference dinner

**Saturday, 26.04.2014**

09:00-09:40 Slunyaev, Short solitary patterns of steep water waves

09:45-10:25: Pelinovsky Fourier spectrum of Riemann waves

10:30-11:00: Coffee break

11:05-11:45: Fedele, Breathers, crest slowdown and fiber bundles of the compact Zakharov equation

11:50-12:50: Craig, Birkhoff normal forms for the equations for water waves

12:50-13:00: Closing