

## Workshop on "Modified dispersion for dispersive equations and systems"

**Location: Seminar Room, 08.135**

**Mon, 23. Sep (Opening: 15:00) - Fri, 27. Sep 13**

Organisers

Rémi Carles (CNRS c/o U. Montpellier 2)

Norbert J. Mauser (WPI c/o U. Wien)

Jean-Claude Saut (U. Paris-Sud)

### Monday, September 23, 2013

Afternoon Session

15:00 – 15:45 **Rémi Carles**: Nonstandard dispersion in Schrödinger equations

15:45 – 16:00 Coffee Break

16:00 – 16:45 **Paolo Antonelli**: Scattering for nonlinear Schrödinger equations with partially confining potential

### Tuesday, September 24, 2013

Morning Session

09:30 – 10:15 **Mathieu Colin**: Short pulses approximations in dispersive media

10:15 – 10:45 Coffee break

10:45 – 11:30 **Eric Dumas**: Nonlinear optics: taking full dispersion and ionization into account

Afternoon Session

14:15 – 15:00 **Valeria Banica**: Dispersion for the Schrödinger equation on the line with multiple Dirac delta potentials

### Wednesday, September 25, 2013

#### Morning Session

- 09:30 – 10:15 **Vincent Duchêne:** Nonlinear dispersive asymptotic models for the propagation of internal waves
- 10:15 – 10:45 Coffee break
- 10:45 – 11:30 **Nicola Visciglia:** Long-time behavior and invariant measures for the Benjamin-Ono equation

#### Afternoon Session

- 14:15 – 15:00 **David Lannes:** Stabilization by dispersion: the example of interfacial waves

### Thursday, September 26, 2013

#### Morning Session

- 09:30 – 10:15 **Felipe Linares:** Dispersive perturbations of Burgers and hyperbolic Equations
- 10:15 – 10:45 Coffee break
- 10:45 – 11:30 **Christian Klein:** Numerical study of blow-up in nonlinear dispersive Equations

#### Afternoon Session

- 14:15 – 15:00 **Dmitry Pelinovsky:** Validity of the weakly nonlinear solution for the Boussinesq-Ostrovsky equation

### Friday, September 27, 2013

#### Morning Session

- 09:30 – 10:15 **Thomas Alazard:** Global solutions and asymptotic behavior for two dimensional gravity water waves
- 10:15 – 10:45 Coffee break
- 10:45 – 11:30 **Didier Pilod:** The Cauchy problem for two dimensional Boussinesq systems