

## Rencontre RAS au CIRM, du 20 au 24 septembre 2010

### LUNDI 20 SEPTEMBRE

- **10h–10h30** PHILIPPE GRAVEJAT: *The Korteweg-de Vries long-wave approximation of the Gross-Pitaevskii equation.*
- **10h30–11h00** CLÉMENT GALLO: *Finite time extinction by nonlinear damping for the Schrödinger equation.*
- **11h00–11h30** Coffee break
- **11h30–12h30** SATOSHI MASAKI: *Schrödinger-Poisson equation in low dimensions.*

### MARDI 21 SEPTEMBRE

- **9h30–10h30** OANA POCOVNICU: *Soliton resolution and action-angle coordinates for the cubic Szegö equation on the real line.*
- **10h30–11h00** LAURENT THOMANN: *Gibbs measure for the derivative Schrödinger equation.*
- **11h00–11h30** Coffee break
- **11h30–12h30** NIKOLAY TZVETKOV: *Invariant measures for the nonlinear harmonic oscillator.*

### MERCREDI 22 SEPTEMBRE

- **9h30–10h30** ERIC DUMAS: *Multiphase weakly nonlinear geometric optics for NLS and applications to instability results.*
- **10h30–11h00** RAPHAËL DANCHIN: *Gross-Pitaevskii equation and capillary fluids.*
- **11h00–11h30** Coffee break
- **11h30–12h30** ANDREA SACCHETTI: *Spontaneous symmetry breaking phenomenon in nonlinear Schrödinger equations with double well potential.*

### JEUDI 23 SEPTEMBRE

- **9h30–10h30** BENOÎT GRÉBERT: *A Nekhoroshev type theorem for the nonlinear Schrödinger equation on the  $d$ -dimensional torus.*
- **10h30–11h00** BENJAMIN TEXIER: *On validity of the Zakharov equation.*
- **11h00–11h30** Coffee break
- **11h30–12h30** ERWAN FAOU: *Modified energy for splitting methods applied to NLS*

VENDREDI 24 SEPTEMBRE

- **9h30–10h30** THOMAS DUYCKAERTS: *Maximizers for the Strichartz norm for small solutions of mass-critical nonlinear Schrödinger equation.*
- **10h30–11h00** FLORIAN MÉHATS: *The Schrödinger-Poisson system on the sphere: wellposedness and asymptotics.*
- **11h00–11h30** Coffee break
- **11h30–12h30** CLOTILDE FERMANIAN: *Nonlinear propagation of coherent states.*