

Rencontre RAS au CIRM, du 17 au 21 septembre 2012

LUNDI 17 SEPTEMBRE

- **14h30–15h30** CLOTILDE FERMANIAN: *TBA.*
- **15h45–16h45** ROMAN SCHUBERT: *Quantum normal forms and transition state theory: Microlocal analysis of chemical reactions.*
- **17h00–18h00** BENJAMIN TEXIER: *From Newton to Boltzmann: the case of short-range potentials.*

MARDI 18 SEPTEMBRE

- **9h30–10h30** BENOÎT PAUSADER: *On scattering for the quintic defocusing nonlinear Schrödinger equation on $\mathbb{R} \times \mathbb{T}^2$.*
- **10h30–11h00** JUAN HUANG: *The energy-critical nonlinear Schrödinger equations with subcritical perturbations.*
- **11h00–11h30** Coffee break
- **11h30–12h15** FABRICE PLANCHON: *On the cubic NLS on 3D compact domains.*

MERCREDI 19 SEPTEMBRE

- **9h30–10h30** RICCARDO ADAMI: *Stability of ground states for NLS on simple graphs.*
- **10h30–11h15** DIDIER SMETS: *Stability and asymptotic stability for solitons of the 1D Gross-Pitaevskii equation.*
- **11h15–11h45** Coffee break
- **11h45–12h30** STEFAN LE COZ: *Multi-solitons of NLS.*

JEUDI 20 SEPTEMBRE

- **9h30–10h30** CHRISTIAN KLEIN: *Semiclassical limit of nonlinear Schrödinger equations and Painlevé transcendents.*
- **10h30–11h00** LAURENT THOMANN: *Dynamics of Klein-Gordon near an homoclinic orbit.*
- **11h00–11h30** Coffee break
- **11h30–12h15** BENOÎT GRÉBERT: *Resonant normal form and applications to PDEs.*

VENDREDI 21 SEPTEMBRE

- **9h30–10h30** OANA IVANOVICI: *Dispersive estimates for the wave equation inside convex domains.*
- **10h30–11h00** Coffee break
- **11h00–12h00** PHILIPPE GRAVEJAT: *Hartree-Fock models for the vacuum polarization.*