

Workshop Disorder and Chaos

Maison des Magistères , Polygone CNRS Grenoble

14-15 November 2019



Contrôle
des **Ondes**
en **Milieu**
COMPLEXE

Organizers:

Sergey Skipetrov (LPMCMC), Alain Joye (Institut Fourier) , Bart van Tiggelen (LPMCMC)

Thursday November 14, 2019

12:00 arrivals and lunch

13:30 Ad Lagendijk (COPS- Twente University)

Disruption of simple multiple elastic scattering by absorption, anisotropy and finite size

14:00 Benoît Tallon (ISTERRE - Grenoble)

Mesosopic wave physics with fish shoals

14:30 Arnaud Tourin (Institut Langevin -Paris)

Time-reversal acoustics in granular matter: an intermediate between particles and waves ?

15:00 Clément Tauber (LAGM, Cergy-Pontoise)

Topology of periodically driven systems

15:30 Coffee break

16:00 Alain Joye (Institut Fourier, Grenoble)

Mathematical aspects of localisation and transport properties of the Chalker-Coddington model.

16:30 John Page (University of Manitoba, Winnipeg)

Ultrasonic waves and localization in disordered media

17:00 Bertrand Georgeot (LPT/IRSAMC -Toulouse)

Wave chaos and regular modes in rotating stars

17:30 END

Friday November 15, 2019

09:00 Dominique Delande (LKB Paris)

The Quantum Boomerang Effect

09:30 Diederik Wiersma (INRIM, Torino)

Super resolution spectroscopy with random lasers

10:00 Igor Sokolov (Polytechnic University, Saint Petersburg and CPTGA guest)

Dipole-dipole Interaction and Cooperative Effects in Atomic Ensemble Coupled to a Waveguide

10:30 Anna Minguzzi (LPMMC-Grenoble)

Josephson effect(s) for strongly correlated gases in one dimension

11:00 **CPTGA seminar** : Leszek Sirko (Institute of Physics of the Polish Academy of Sciences and CPTGA guest)

Properties of Open Quantum Graphs and Microwave Networks

12:00 Nicolas Cherroret (LKB Paris)

Simulating quantum matter waves with light in disordered and nonlinear media

12:30 Lunch and departure