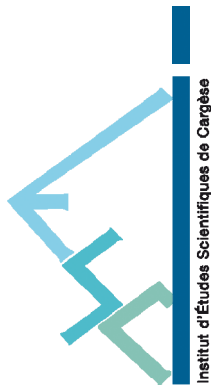


Summer School – Ecole thématique du CNRS



# Mesoscopic Physics in Complex Media

12-16 July 2010

Institut d'Études Scientifiques de Cargèse, France

Organized by:

Ecole  
Thématique  
1011010



Méso<sup>GDR 3219</sup>  
Im@ge

and



**FOR760: Scattering Systems with Complex Dynamics**

Scientific directors:

**Bart A. van Tiggelen and Hans-Jürgen Stöckmann**

Organizing committee:

**Sergey Skipetrov, Martina Hentschel and Ulrich Kuhl**

The School will provide insightful lecture courses on modern developments in the fields of wave physics of disordered systems and quantum chaos, as well as on other wave phenomena in complex environments. The lectures will be given by internationally recognized experts. They will be supplemented by a number of shorter talks given by younger participants and focusing on more specific aspects of particular subjects discussed in the lectures. Finally, a poster session will be organized to allow all the participants to present and discuss their research.

## Time table

■ ■ Bastille Day

	MONDAY 12/07	TUESDAY 13/07	WEDNESDAY 14/07	THURSDAY 15/07	FRIDAY 16/07	SATURDAY 17/07	
08:45	<b>Opening</b>						Departure
	Chairperson: Van Tiggelen	Chairperson: Goussev	Chairperson: Scheffold	Chairperson: Kuhl	Chairperson: Saracco		
09:00	Wiersma <b>Localization</b>	Richter <b>Semi-classics 1</b>	McPhedran <b>Meta-materials 1</b>	Ketzmerick <b>Phase space 2</b>	Müller <b>Semi-classics 2</b>		
10:00	Izrailev <b>Correlated disorder 1</b>	Bouyer <b>Matter waves 1</b>	Schlagheck <b>Matter waves 2</b>	Mosk <b>Optical imaging 2</b>	Margerin <b>Seismology 2</b>		
11:00	<b>Coffee break</b>						
11:30	Boccara <b>Optical imaging 1</b>	Tourin <b>Ultrasonics 1</b>	Kuhl <b>Correlated disorder 2</b>	Page <b>Ultrasonics 2</b>	Kafesaki <b>Meta-materials 2</b>		
12:30	<b>Lunch (at the Institute)</b>						
	<b>Outdoor poster session* / Informal discussions</b>						
16:30	<b>Coffee</b>						
	Chairperson: Stöckmann	Chairperson: Sens-Schönfelder	<b>Poster session</b>	Chairperson: Freilikher	Chairperson: Skipetrov		
17:00	Schwefel <b>Phase space 1</b>	Shapiro <b>Seismology 1</b>		Bogomolny <b>Aharonov-Bohm</b>	Leboeuf <b>Matter waves 3</b>		
18:00	Legrand <b>Resonances</b>	Chabanov <b>Speckle statistics</b>		Enoch <b>Meta-materials</b>	Faez <b>Multifractality</b>		
18:30	Maurel <b>Water waves</b>	Wu <b>Exotic solids</b>		Metzger <b>Branch statistics</b>	Shim <b>Microcavities</b>		
19:00	<b>Welcome cocktail</b>				<b>Closing</b>		
20:00	<b>Dinner in town (on your own)</b>			<b>BBQ</b>	<b>Dinner in town (on your own)</b>		

\*Posters are supposed to be put on Monday and remain accessible during the whole duration of the School

## List of lectures

Optical imaging in random media

*Claude Boccara and Allard Mosk*

Aharonov-Bohm effect

*Eugene Bogomolny*

Mesoscopic physics of matter waves

*Philippe Bouyer, Peter Schlagheck and Patricio Leboeuf*

Transport properties of systems with correlated disorder

*Felix Izrailev and Ulrich Kuhl*

Imaging and mesoscopic physics with seismic waves

*Ludovic Margerin and Nikolai Shapiro*

Photonic metamaterials

*Ross McPhedran and Maria Kafesaki*

Semiclassical aspects of quantum systems

*Klaus Richter and Sebastian Müller*

Mixed phase space systems

*Harald Schwefel and Roland Ketzmerick*

Imaging and Anderson localization with ultrasound

*Arnaud Tourin and John Page*

Anderson localization of light and random lasers

*Diederik Wiersma*

## List of contributed talks

Speckle statistics of localized waves in random media

*Andrey Chabanov*

Metamaterials for surface waves

*Stefan Enoch*

Multifractality at the Anderson transition

*Sanli Faez*

Statistics of resonance states in a weakly open chaotic microwave cavity

*Olivier Legrand*

Experimental study of water wave propagation in complex media

*Agnes Maurel*

Universal branch statistics

*Jakob Metzger*

Partial barrier torus quantization in microcavity systems

*Jeong-Bo Shim*

Exotic solids made by elastic metamaterials

*Ying Wu*