

CLXXIII COURSE
NANO OPTICS AND ATOMICS:
TRANSPORT OF LIGHT AND MATTER WAVES

23 June–3 July

in collaboration with International Cold Atom Network (INTERCAN)

Topics:

- Wave transport in disordered structures
- Anderson localization of light, sound and matter waves
- Ultracold atoms, bosonic and fermionic superfluidity
- Nanoscale plasmon propagation
- Lévy flights and photonic (quasi-) crystals
- Transport in low-dimensional systems
- Quantum simulation

Lecturers and Seminar Speakers:

A. ASPECT – Groupe d'Optique Atomique, Laboratoire Charles Fabry, UMR 8501 CNRS, Institut d'Optique Théorique et Appliquée, CNRS et Université de Paris-Sud XI, Palaiseau (France)

B. BARNES – School of Physics, University of Exeter (UK)

I. BLOCH – Institut für Physik, Johannes Gutenberg Universität, Mainz (Germany)

J. DALIBARD – Laboratoire Kastler Brossel, Paris (France)

A. DEREUX – Institut Carnot de Bourgogne, UMR 5209 CNRS, Département Nanosciences, Université de Bourgogne, Dijon (France)

M. FINK – Laboratoire Ondes et Acoustique, Ecole Supérieure de Physique et de Chimie Industrielle de la Ville de Paris, Université Denis Diderot, UMR 7587 CNRS, Paris (France)

R. HULET – Physics and Astronomy Department, Rice University, Houston, TX (USA)

M. INGUSCIO – European Laboratory for Non-linear Spectroscopy (LENS), Università di Firenze, Sesto Fiorentino, FI (Italy)

J. KLAFTER – School of Chemistry, Tel Aviv University (Israel)

G. MARET – Fachbereich Physik, Universität Konstanz (Germany)

J. PAGE – Ultrasonics Research Laboratory, Department of Physics and Astronomy, University of Manitoba, Winnipeg (Canada)

P. STEINHARDT – Center for Theoretical Science, Princeton University, NJ (USA)

P. WÖLFLE – Institut für Theorie der Kondensierten Materie, Universität Karlsruhe (Germany)

E. YABLONOVITCH – Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, CA (USA)

A. YODH – Department of Physics and Astronomy, University of Pennsylvania, Philadelphia, PA (USA)

Directors of the Course:

R. KAISER – Institut Non Linéaire de Nice, UMR 6618 CNRS, Valbonne (France)

D. S. WIERSMA – European Laboratory for Non-linear Spectroscopy (LENS), INFN-CNR, Sesto Fiorentino, FI (Italy)

Scientific Secretary:

L. FALLANI – European Laboratory for Non-linear Spectroscopy (LENS), Università di Firenze, Sesto Fiorentino, FI (Italy)

Deadline for application: April 20th, 2009

Correspondence and application forms should be sent to:

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Opening of the Course: Tuesday, June 23rd, 2009 – 9.00 a.m.

Closing of the Course: Friday, July 3rd, 2009 – 12.30 p.m.

Participation fee:

€1.300,00 (for attendance, full board, lodging and Proceedings)