

International Workshop on Quantum transport and quantum effects in photosynthetic systems

WORKSHOP SCIENTIFIC COMMITTEE

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On behalf of the recently born "Interdisciplinary Laboratories for Advanced Materials Physics", within the Department of Mathematics and Physics at the Catholic University of the Sacred Heart in Brescia (Italy), we are organizing a mini-workshop focusing on quantum transport and quantum effects in photosynthetic systems. Evidence of coherent quantum energy transfer has been recently found in photosynthetic light-harvesting systems in physiological conditions. These findings raised many unanswered questions.

The purpose of the workshop is to bring together both experimental and theoretical scientists from different fields (chemistry, mesoscopic physics, biology, and quantum information science) to discuss both general problems about transport in the coherent quantum regime and more specific problems about energy transfer in photosynthetic systems. Main focus of the workshop will be the interplay between quantum coherence and environmental effects in biological and mesoscopic systems.

The workshop will include plenty of time for brainstorming and discussions on this novel area.

LIST OF SPEAKERS

M. SAROVAR, Sandia National Laboratories, Livermore, USA

E. COLLINI, University of Padova, Italy

V.V. SOKOLOV, Novosibirsk State Technical University, Novosibirsk, Russia

F. BORGONOVÌ, Catholic University of the Sacred Heart, Brescia, Italy

G. CERULLO, Politecnico di Milano, Italy

D. POLLI, Politecnico di Milano, Italy

I. MERCER, School of Physics, Dublin, Ireland

C. EMARY, TU Berlin, Germany

S. GURVITZ, Weizmann Institute of Science, Israel

F. FASSIOLI, University College London, UK

A. OLAYA-CASTRO, University College London, UK

G. SCHALLER, TU Berlin, Germany

U. PESKIN, Israel Institute of Technology Haifa, Israel

F. CAYCEDO-SOLER, Ulm University, Ulm, Germany

A. PERUZZO, University of Bristol, UK

For registration send an email to: form.permanente-bs@unicatt.it Participation is free.

International Workshop

September 20-21, 2012

Centro Pastorale Paolo VI

Via Gezio Calini 30, Brescia, Italy

www.centropastoralepaolovi.it

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