

SOFT MATTER EXPLORATORY WORKSHOP



NONTRIVIAL QUANTUM EFFECTS IN BIOMOLECULAR SYSTEMS

OCTOBER
18–20, 2010

The workshop will investigate the relevance of quantum coherence effects in biomolecular systems by bringing together an interdisciplinary community including biochemists, quantum physicists, and material scientists. Aside from addressing the fundamentals of quantum effects in biomolecular systems, the meeting will explore what can be learned from nature to optimize related, technologically relevant processes, such as efficient light harvesting and charge separation in artificially designed nanostructures.

Invited speakers:

Herbert van Amerongen (Wageningen, NL)
Marc Baldo (MIT, USA)*
Thomas Bjornholm (Copenhagen, DK)
Dan Cox (Davis, USA)*
Michel Devoret (Yale, USA)*
Greg Engel (Chicago, USA)
David Jonas (Boulder, USA)
Oliver Kühn (Rostock, Germany)
Seth Olsen (Queensland, Australia)
Martin Plenio (Ulm, Germany)
Jeff Reimers (Sydney, Australia)
Thorsten Ritz (Irvine, USA)
Christopher Rodgers (Oxford, UK)*
Per E.M. Siegbahn (Stockholm, Sweden)
Robert Silbey (MIT, USA)*
Gerhard Stock (Freiburg, Germany)
Vlatko Vedral (Oxford, UK)
Anton Zeilinger (Vienna, Austria)*
Wolfgang Zinth (München, Germany)*

* to be confirmed

Organizers:

Michael Thorwart (contact person; FRIAS, Freiburg, Germany, michael.thorwart@frias.uni-freiburg.de)
Reinhold Egger (Düsseldorf, Germany)
Rosario Fazio (Pisa, Italy)
Hermann Grabert (FRIAS, Germany)
Rienk van Grondelle (Amsterdam, NL)
Ross McKenzie (Brisbane, Australia)
Alexandra Olaya Castro (London, UK)
Arturo Tagliacozzo (Napoli, Italy)
Leonas Valkunas (Vilnius, Lithuania)

Location:

Hotel San Michele, Anacapri, Italy

Participation:

By invitation only



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