



EXC!TiNG Symposium on

Excited-state properties of solids



Maritim Parkhotel Mannheim, Germany, May 16–19, 2005

Advisory Committee:

C. Ambrosch-Draxl (Graz)
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Organizing Committee:

T. Andersen (Secretary General)
M. Frey (Conference Secretary)
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G. Lefkidis
O. Ney
Y. Pavlyukh

Invited Speakers (including):

H. Ebert (Munich)
G. Ju (Seagate)
L. Reining (Palaiseau)
A. Rubio (San Sebastian)
E. Runge (Ilmenau)

First Announcement and call for abstracts

This International Symposium will be organized in Mannheim by the Condensed Matter Theory Group of Kaiserslautern University of Technology within the framework of the European Union Research Training Network “Exciting”, and it should bring together researchers active in the field of excited-state properties of low-dimensional condensed matter systems. Over the past few years, progress has been achieved in combining the field of nanomaterials with first-principles calculations, and this conference will cover the excited-state properties of these materials from both theoretical, experimental and applicational points of view. Sessions will be centered around the following themes:

- Theory: time-dependent density-functional theory.
- Theory: Hedins GW method and the Bethe-Salpeter Equation.
- Theory: quantum-chemical calculations of excited-state properties.
- Code development and application: the “Exciting” code.
- Materials: nanostructures (magnetic and nonmagnetic), superconductors, semiconductors, oxides, molecules.
- Spectroscopy: Raman scattering, two-photon photoemission, second-harmonic generation.
- Industrial applications.

The presentations at the conference will comprise invited lectures, contributed talks and posters, as well as a hands-on training session for the “Exciting” computer code (no parallel sessions).

Setting

The city of Mannheim is located about 30 minutes from Frankfurt International Airport and can be reached conveniently by train, plane, or car.

Timetable and deadlines

January 10, 2005	Deadline for abstract submission
February 18, 2005	Acceptance notice
March 14, 2005	Deadline for early registration