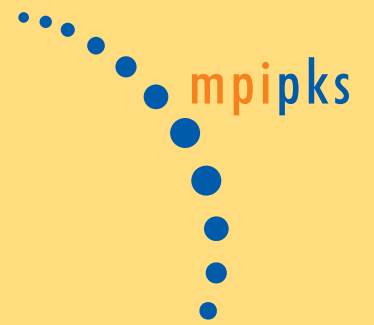




MAX-PLANCK-INSTITUT FÜR PHYSIK KOMPLEXER  
SYSTEME DRESDEN, GERMANY

International Focus Workshop on  
**Quantum Simulations and Design**

September 27 - 29, 2011



*Scientific coordination:*

**Hubert Ebert**

Ludwig-Maximilians-Universität München  
München, Germany

**Diemo Ködderitzsch**

Ludwig-Maximilians-Universität München  
München, Germany

**Masako Ogura**

Osaka University  
Osaka, Japan

*Organisation:* **Sofja Roscina**

The conference is devoted to the rapidly developing field of computational materials design with an emphasis on spin-tronics and related topics. A central interest is to discuss new methods of quantum simulation and quantum design. This includes the development of methods beyond the local density approximation of density functional theory, methods dealing with spin Hall and spin-caloric effects and magnetization dynamics, as well as the application of these methods to the design of new materials and devices.

**List of invited speakers** (\* to be confirmed):

H. Akai (Japan)

O. Eriksson (Sweden)

P. Kratzer (Germany)

J. Minar (Germany)

S. Tsuneyuki (Japan)

G. E. W. Bauer (Netherlands)

K. Inomata (Japan)

S. G. Louie (USA)\*

A. Rubio (Spain)

W. Wulfhekel (Germany)

M. Eisenbach (USA)

T. Kotani (Japan)

I. Mertig (Germany)

A. Oshiyama (Japan)

**Applications** for participation and poster contributions are welcome and should be made by using the application form on the event's web page (please see URL below). The number of attendees is limited. The **registration fee** for the focus workshop is **120 €** and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute for the Physics of Complex Systems. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

**Deadline for registration is May 20, 2011.**

**For further information please contact:**

Visitors Program - Sofja Roscina

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