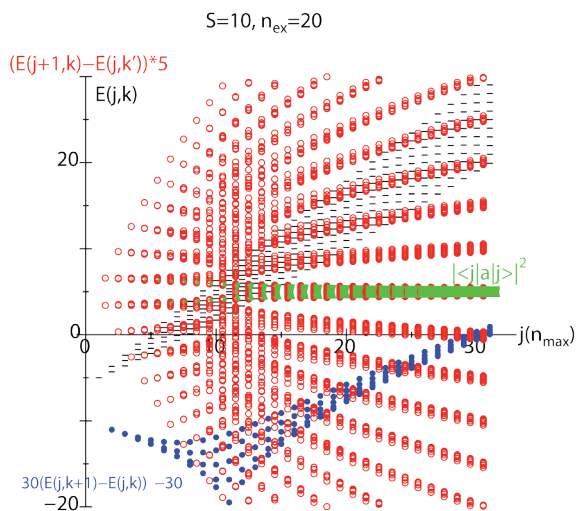


International Workshop on

Simulation and Manipulation of Quantum Systems for Information Processing (SMQS-IP2011)

17 – 19 October 2011 | Rotunde | Jülich Supercomputing Centre | Jülich | Germany



Topics

- Quantum annealing (adiabatic quantum computing, 3-SAT, exact cover, ...)
- Open quantum systems
- Quantum computer hardware / qubits
- Optical lattices
- Equilibration and thermalization of quantum systems
- Quantum biology

Invited speakers

- Bernard Barbara (Institut Néel, CNRS, Grenoble)
- Heinz-Peter Breuer (University of Freiburg)
- David P. DiVincenzo (Research Centre Jülich, University of Aachen)
- Jochen Gemmer (University of Osnabrück)
- Peter Hänggi (University of Augsburg)
- Alexander K. Hartmann (University of Oldenburg)
- Susana F. Huelga (Ulm University)
- Norio Kawakami (Kyoto University)
- Naoki Kawashima (The University of Tokyo)
- Kazuo Kudo (Ochanomizu University, Tokyo)
- Mio Murao (The University of Tokyo)
- Theo Nieuwenhuizen (University of Amsterdam)
- Hidetoshi Nishimori (Tokyo Institute of Technology)
- Akinori Nishino (The University of Tokyo)
- Kenji Ohmori (Institute for Molecular Science, Okazaki)
- Martin B. Plenio (Ulm University)
- Seigo Tarucha (The University of Tokyo)
- Chikako Uchiyama (University of Yamanashi)
- Peter Young (University of California)

Organizers

- Kristel Michielsen (chair), Jülich Supercomputing Centre, Germany
- Hans De Raedt, University of Groningen, The Netherlands
- Naomichi Hatano, The University of Tokyo, Japan
- Seiji Miyashita, The University of Tokyo, Japan
- Thomas Neuhaus, Jülich Supercomputing Centre, Germany
- Syngae Todo, The University of Tokyo, Japan

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Support

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URL

www.fz-juelich.de/smq-IP2011