



ADVANCED NUMERICAL ALGORITHMS FOR STRONGLY CORRELATED QUANTUM SYSTEMS

WÜRZBURG, FEBRUARY 23 - 26 2015

Concepts in quantum information have lead to the development of powerful algorithms for condensed-matter systems. The discovery of graphene and topological insulators has spurred a resurgent interest in the Dirac equation in solid-state physics, an area common to the condensed matter and lattice-gauge-theory communities. Advances in high-performance computing are reshaping the way computers will be used for research in the future. The aim of the conference is to bring together researchers from these disparate fields in order to foster synergies, to stimulate further progress, and to identify promising directions for future research.

INVITED SPEAKERS/PARTICIPANTS

- A. Alvermann
- G. Chan
- S. Chandrasekharan
- M. Daghofer
- P. de Forcrand*
- A. Honecker
- E. Jeckelmann
- C. Kollath
- A. Läuchli
- T. Lang
- D. Luitz
- S. Manmana
- F. Pollmann
- A. Polkovnikov
- N. Prokof'ev
- M. Rigol
- T. Schulthess
- S. Sorella
- M. Stoudenmire
- M. Troyer
- F. Verstraete
- L. Vidmar
- S. Wessel

(*to be confirmed)

SCIENTIFIC COORDINATION

- F. Assaad
- F. Heidrich-Meisner
- M. Hohenadler
- R. Noack
- U. Schollwöck

ORGANIZATION

- Alexandra Lösch

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APPLICATION UNTIL JAN. 11, 2015 AT
for1807.physik.uni-wuerzburg.de/international-conference

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