

# 624th Wilhelm und Else Heraeus-Seminar

## Simulating Quantum Processes and Devices



Physikzentrum Bad Honnef, September 19 - 22, 2016

### *Scientific organizers:*

Joachim Ankerhold, Simone Montangero, Jürgen Stockburger (U Ulm, Institute for Complex Quantum Systems)

### *Seminar topics:*

- Quantum Monte Carlo
- Stochastic equivalents of open quantum systems
- Tensor Network Methods
- Numerical Renormalization Group / Density Matrix Renormalization Group
- Time-dependent multiconfiguration wave function methods
- Non-equilibrium Greens functions / transport
- Semiclassical Methods

### *List of confirmed speakers:*

- Frithjof Anders (Dortmund)
- Mari Carmen Banuls (MPI Garching)
- Ralf Bulla (Köln)
- Jianshu Cao (MIT)
- Andrew Daley (Strathclyde)
- Jan von Delft (LMU München)
- Rosario Fazio (Trieste)
- Milena Grifoni (Regensburg)
- Frank Grossmann (Dresden)
- Andreas Läuchli (Innsbruck)
- Karyn Le Hur (CPHT, Ecole Polytechnique, Palaiseau)
- Fabian Pauly (Konstanz)
- Heiko Rieger (U Saarland)
- Anders Sandvik (Boston U)
- Peter Schmelcher (Hamburg)
- Jiu-Shu Shao (Beijing)
- Sandro Sorella (Trieste)
- Walter Strunz (Dresden)
- Yoshitaka Tanimura (Kyoto)
- Michael Thorwart (Hamburg)
- Michael Thoss (Erlangen-Nürnberg)
- Matthias Troyer (ETH Zürich)
- Jiří Vaníček (EPFL Lausanne)

### *Deadline for registration:*

July 24, 2016

### *Further information:*

<https://www.uni-ulm.de/nawi/institut-fuer-komplexe-quantensysteme/heraeus624.html>

