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**BuildMoNa Module 2024-T4
From Molecules to Materials –
Solid State Quantum Systems**

Thursday, 20 June to Friday, 21 June 2024
Universität Leipzig, Außenstelle Zingst/Ostsee,
Müggenburger Weg 29a, 18374 Zingst

Preliminary Agenda

Thursday, 20 June 2024

- 10:00 Welcome address
Prof. Dr. Jan Meijer
Universität Leipzig
- 10:10 Prof. Dr. Johannes Deiglmayr
Universität Leipzig
Quantum simulation with Rydberg atoms
- 11:10 Prof. Dr. Johannes Heitmann
TU Bergakademie Freiberg
Ohmic Contact Formation and Atomic Layer Processing for Wide Band Gap Materials and Devices
- 12:10 *Lunch break*
- 14:00 Dr. Stefan Kubsky
Synchrotron SOLEIL, GIF-SUR-YVETTE, France
Synchrotron SOLEIL – new instrumental techniques for SOLEIL 2, entanglement brainstorming
- 15:00 Group photo shooting (in front of main building)
- 15:15 Prof. Dr. Nabeel Aslam
Universität Leipzig
Spin qubits in diamond for nanoscale nuclear magnetic resonance
- 18:00 Dinner at Restaurant “Schlösschen”



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Friday, 21 June 2024

- 10:00 Dr. Sébastien Pezzagna
Universität Leipzig
ST1 Center in Diamond
- 11:00 Dr. Ralf Wunderlich
Universität Leipzig
NV-based spin physics in and outside of diamond
- 12:00 *Lunch break*
- 14:00 Dr. Tobias Lühmann
Universität Leipzig
Diamond nanoparticles with NV centres embedded in glass fibres for microwave-free magnetic field measurement
- 16:00 Prospective end