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**BuildMoNa Module 2022-T4
From Molecules to Materials –
Solid State Quantum Systems**

Thursday, 15 September to Friday, 16 September 2022

Universität Leipzig, Außenstelle Zingst/Ostsee,
Müggenburger Weg 29a, 18374 Zingst

Agenda

Thursday, 15 September 2022

- 10:00 Welcome address
Prof. Dr. Jan Meijer
Universität Leipzig
- 10:10 Prof. Dr. Andreas Wieck
Ruhr-Universität Bochum
Optimization of Molecular-Beam-Epitaxy-grown Quantum Dots in GaAs
- 11:10 Dr. Stefan Kubsy
Synchrotron SOLEIL, GIF-SUR-YVETTE, France
SOLEIL Upgrade – new scientific and technological challenges
- 12:10 *Lunch break*
- 14:00 Prof. Dr. Johannes Deiglmayr
Universität Leipzig
Rydberg atoms for quantum technologies
- 15:00 Group photo shooting (in front of main building)
- 15:15 Prof. Dr. Jan Meijer
Universität Leipzig
Fabrication and applications of defect centres for quantum information processing and sensor technology
- 18:00 Dinner (Restaurant Sapore Italiano)



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Friday, 16 September 2022

- 10:00 Dr. Sébastien Pezzagna
Universität Leipzig
ST1 Center in Diamond
- 11:00 Prof. Dr. Johannes Heitmann
TU Bergakademie Freiberg
Bandgap engineering for quantum and dielectric confinement
- 12:00 *Lunch break*
- 14:00 Dr. Tobias Lühmann
Universität Leipzig
Formation of colour centres in doped diamond by ion implantation
- 15:00 Prospective end