



UNIVERSITÄT
LEIPZIG



Annual Meeting and Status Seminar FOR 2857, Fall School and BuildMoNa Minisymposium 2023-A3 “Quantum Coherent Structures: Quantencomputing”

Thursday, 28 September to Friday, 29 September 2023

Universität Leipzig, 04103 Leipzig, Johannisallee 29
Wislicenus Lecture Hall (Room 015)

Agenda

Thursday, 28 September 2023

- 10:00 Prof. Dr. Jan Meijer
Felix Bloch Institute for Solid State Physics, Universität Leipzig
Welcome address
- 10:10 Prof. Dr. Ádám Gali
Wigner Research Centre for Physics, Budapest, Hungary
Theory of quantum bits in diamond
- 10:50 Prof. Dr. Boris Fine
Institute for Theoretical Physics, Universität Leipzig
Quantum scars and periodic classical trajectories in many-spin systems
- 11:30 Prof. Dr. Nabeel Aslam
Felix Bloch Institute for Solid State Physics, Universität Leipzig
*Single spin qubits in diamond – applied to nanoscale NMR
and quantum information processing*
- 12:10 *Lunch (Room 014)*
- 13:30 Dr. Matthias Mendt
SaxonQ GmbH, Leipzig
How to entangle two qubits on an NV quantum processor
- 14:10 Hans Ehm
Infineon Technologies AG, München
QC applications for supply chain and beyond (e.g. for automotive)
- 14:50 Dr. Bernd Burchard
Elmos Semiconductor SE, Dortmund
IP security using the example of quantum computers



15:30 Group photo shooting (in front of main building)

15:40 *Coffee break (Room 014)*

16:00 Guided lab tour

19:00 Dinner Bayerischer Bahnhof

Friday, 29 September 2023

9:00 Matthias Hoffmann
Maikowski & Ninnemann Patentanwälte Partnerschaft mbB, Leipzig
*Protecting unique selling positions and intellectual property:
patents, trademarks and co.*

9:40 Dr. Sébastien Pezzagna
Felix Bloch Institute for Solid State Physics, Universität Leipzig
*The quest for the ST1 centre in diamond: a second room-temperature
QuBit?*

10:20 *Coffee break (Room 014)*

10:50 Internal Meeting FOR 2857
Prof. Dr. Michael Lorenz, Dr. Susanne Selle P01

11:40 Dr. Sofie Vogt, P03

12:10 Prof. Dr. Silvana Botti, P04

12:40 Group photo shooting FOR 2857

12:50 *Lunch (Room 014)*

14:00 Dr. habil. Holger von Wenckstern, P05

14:30 Dr. Chris Sturm, P06

15:00 Prof. Dr. Claudia S. Schnohr, P07

15:30 *Coffee break (Room 014)*

16:00 Dr. Tomáš Rauch, P08

16:30 Prof. Dr. Harald Krautscheid, P02

