

Thursday, February 19th

Arrival/registration till 12 h

12:00 – 13:00 h Lunch

13:00 – 13:30 h **Welcome**

Christoph Becher, Universität des Saarlandes

13:30 – 15:30 h **Young Investigators I**

Chair: Peter Michler, Universität Stuttgart

Dorian Gangloff, University of Cambridge, UK (Zoom)

“Spins in Quantum Dots: The Quiet Revolution”

Andreas Pfenning, Universität Würzburg

“Progress on Semiconductor Quantum Dots Emitting in the Telecom C-Band”

Patrick Ledingham, University of Southampton, UK (Zoom)

“Building Hybrid Quantum Networks with Single Photons and Atomic Memories”

15:30 – 16:00 h Coffee break

16:00 – 18:00 h **Young Investigators II**

Chair: Peter Michler

Ralph Riedinger, Universität Hamburg

“Scaling up quantum networks - performance requirements for a global quantum internet”

Johannes Zeiher, MPQ Garching (Zoom)

“Cavity-coupled Rydberg arrays as novel quantum optical interfaces”

Anna Pappa, TU Berlin

“Delegated Verifiable Quantum Computing”

18:00 – 19:45 h Dinner

20:00 h **Evening talk**

Chair: Christoph Becher

Mihir Bhaskar, IonQ, USA

“Quantum Interconnects for Scalable Fault Tolerant Quantum Computers”



Friday, February 20th

- 08:30 – 10:00 h **Quantum computing start-ups & visions**
Chair: Oliver Benson, HU Berlin
Sebastian Blatt, planqc
“Neutral-atom Quantum Computing at planqc”
Ulrich Meier, IQM Quantum Computers
“Quantum Computers - Built for Real Impact”
Björn Lekitsch, neQxt
“Starting neQxt and building a scalable quantum computer”
- 10:00 – 10:30 h Discussion *“Networking of Quantum Computers”*
- 10:30 – 10:45 h Coffee break
- 10:45 – 12:45 h **IT-Security/Networks**
Chair: Oliver Benson
Marc Geitz, T-Labs
“The Power of Randomness in Communication System”
Oliver Muth, Bundesdruckerei
“Quantum activities at Bundesdruckerei: From PQC to Quantum Communication”
Karolin Varner, MPI für Security & Privacy
“Plug and Play – How to enter the Quantum Internet without Fuzz, Buzz, or KMS”
- 12:45 – 13:00 h Concluding discussion
- 13:15 – 14:15 h Lunch