Quantum Information Division
Fachverband Quanteninformation (QI)

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Overview of Invited Talks and Sessions

(Lecture halls H8 and H9; Poster P2)

Invited Talks

QI 1.1	Mon	9:30–10:00	H8	**Coherence of spin qubits in planar germanium** — •Nico Willem Hendrickx
QI 2.1	Mon	9:30–10:00	H9	**Measuring the thermodynamic cost of timekeeping** — •Yelena Guryanova
QI 2.6	Mon	11:15–11:45	H9	**Finite-size effects in quantum thermodynamics** — •Kamil Korzekwa
QI 3.1	Mon	15:00–15:30	H8	**Generalized randomized benchmarking with short random quantum circuits** — Markus Heinrich, •Martin Kliesch, Ingor Roth
QI 5.1	Tue	9:30–10:00	H8	**Towards universal quantum computation and simulation with NV centre in diamond** — •Vadim Vorobyov
QI 6.1	Tue	9:30–10:00	H9	**Towards an Artificial Muse for new Ideas in Quantum Physics** — •Mario Krenn
QI 8.1	Wed	15:00–15:30	H9	**Exploring Quantum Materials with Quantum Sensors** — •Uri Vool
QI 10.1	Thu	9:30–10:00	H9	**Entanglement Transition in the Projective Transverse Field Ising Model** — •Hans Peter Büchler
QI 13.1	Fri	9:30–10:00	H8	**Scalable control of superconducting qubits** — •Stefan Filipp
QI 14.1	Fri	9:30–10:00	H9	**Testing quantum theory with generalized noncontextuality** — •Markus P. Müller, Andrew J. P. Garner

Invited Talks of the joint Symposium Entanglement Distribution in Quantum Networks (SYED)

See SYED for the full program of the symposium.

SYED 1.1	Wed	9:30–10:00	H1	**A multi-node quantum network of remote solid-state qubits** — •Ronald Hanson
SYED 1.2	Wed	10:00–10:30	H1	**Quantum key distribution with highly entangled photons from GaAs quantum dots** — •Armando Rastelli, Santanu Manna, Saimon Covre da Silva, Gabriel Undeutsch, Christian Schimpf
SYED 1.3	Wed	10:30–11:00	H1	**Entanglement distribution with minimal memory requirements using time-bin photonic qudits** — •Johannes Borregaard
SYED 1.4	Wed	11:15–11:45	H1	**Quantum photonics: interference beyond HOM and quantum networks** — •Stefanie Barz
SYED 1.5	Wed	11:45–12:15	H1	**Photonic cluster-state generation for memory-free quantum repeaters** — •Tobias Huber

Sessions

QI 1.1–1.11	Mon	9:30–12:45	H8	**Implementations: Spin Qubits, Atoms, and Photons**
QI 2.1–2.10	Mon	9:30–12:45	H9	**Quantum Thermodynamics and Open Quantum Systems**
QI 3.1–3.10	Mon	15:00–18:00	H8	**Certification and Benchmarking of Quantum Systems**
QI 4.1–4.41	Mon	18:00–20:00	P2	**Poster: Quantum Information**
QI 5.1–5.9	Tue	9:30–12:15	H8	**Implementations: Solid state systems**
QI 6.1–6.11	Tue	9:30–12:45	H9	**Quantum Information: Concepts and Methods**
QI 7.1–7.10	Wed	15:00–17:45	H8	**Quantum Communication and Networks**
QI 8.1–8.9	Wed	15:00–17:45	H9	**Quantum Sensors and Metrology**

QI 9.1–9.10	Thu	9:30–12:15	H8	**Quantum Correlations**
QI 10.1–10.9	Thu	9:30–12:15	H9	**Quantum Simulation and Many-Body Systems**
QI 11	Thu	14:00–15:00	H8	**Members' Assembly**
QI 12.1–12.12	Thu	15:00–18:15	H8	**Quantum Computing and Algorithms**
QI 13.1–13.11	Fri	9:30–12:45	H8	**Implementations: Superconducting Qubits**
QI 14.1–14.10	Fri	9:30–12:30	H9	**Quantum Foundations**

Members' Assembly of the Quantum Information Division

Donnerstag, 8. September 2022 14:00–15:00 H8

More information will be sent to the members of the division by e-mail.