

Quantum Information Division Fachverband Quanteninformaton (QI)

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Overview of Invited Talks and Sessions

(Lecture halls H3, H4 and H5; Poster P)

Invited Talks

QI 1.1	Mon	10:45–11:15	H4	TBA — ●CHRISTINE SILBERHORN
QI 1.2	Mon	11:15–11:45	H4	TBA — ●JONATHAN HOME
QI 3.1	Mon	14:00–14:30	H4	Quantum Non-Locality in Networks — ●NICOLAS GISIN
QI 3.2	Mon	14:30–15:00	H4	Quantum Foundations Meets Causal Inference — ●ROBERT W. SPEKKENS
QI 4.1	Tue	14:00–14:30	H3	Principles of quantum functional testing — NADIA MILAZZO, OLIVIER GI- RAUD, ●DANIEL BRAUN
QI 4.6	Tue	15:30–16:00	H3	Noncommuting conserved quantities in thermodynamics — ●NICOLE YUNGER HALPERN
QI 5.1	Tue	14:00–14:30	H4	Recent progress with superconducting fluxonium qubit — ●VLADIMIR MANUCHARYAN
QI 5.2	Tue	14:30–15:00	H4	Quantum information processing with semiconductor technology: from qubits to integrated quantum circuits — ●MENNO VELDHORST
QI 6.1	Wed	10:45–11:15	H3	Stabilization and operation of a Kerr-cat qubit in a nonlinear supercon- ducting resonator — ●ALEXANDER GRIMM
QI 6.2	Wed	11:15–11:45	H3	The 3rd quantum revolution: Quantum Algorithmic Experiments. — ●DORIT AHARONOV
QI 9.1	Thu	10:45–11:15	H4	The true Heisenberg limit in optical interferometry — ●RAFAL DEMKOWICZ- DOBZANSKI
QI 9.2	Thu	11:15–11:45	H4	On the quantum limits of field sensing — ●MORGAN MITCHELL
QI 11.1	Thu	14:00–14:30	H4	Numerical Security Analysis for Quantum Key Distribution and Applica- tion to Optical Protocols — ●NORBERT LÜTKENHAUS
QI 11.2	Thu	14:30–15:00	H4	Photonic graph states for quantum communication and quantum comput- ing — ●STEFANIE BARZ
QI 12.1	Fri	10:45–11:15	H3	Emergent Hilbert-space fragmentation in tilted Fermi-Hubbard chains — ●MONIKA AIDELSBURGER
QI 12.2	Fri	11:15–11:45	H3	An entanglement-based perspective on quantum many-body systems — ●NORBERT SCHUCH
QI 14.1	Fri	14:00–14:30	H3	Quantum computing: scaling from university lab to industry — ●JAN GOETZ, IQM TEAM
QI 14.2	Fri	14:30–15:00	H3	Gate Based Quantum Computing at Volkswagen — ●MARTIN LEIB
QI 14.3	Fri	15:00–15:30	H3	TBA — ●SARAH SHELDON

Sessions

QI 1.1–1.6	Mon	10:45–12:45	H4	Implementations: Atoms, Ions and Photons
QI 2.1–2.8	Mon	10:45–12:45	H5	Quantum Computing and Algorithms I
QI 3.1–3.6	Mon	14:00–16:00	H4	Quantum Information and Foundations I
QI 4.1–4.6	Tue	14:00–16:00	H3	Quantum Thermodynamics and Open Quantum Systems
QI 5.1–5.6	Tue	14:00–16:00	H4	Implementations: Solid State Systems
QI 6.1–6.6	Wed	10:45–12:45	H3	Quantum Computing and Algorithms II
QI 7.1–7.7	Wed	10:45–12:30	H4	Quantum Information: Applications
QI 8.1–8.27	Wed	16:30–18:30	P	Quantum Information: Poster (joint session QI/Q)

QI 9.1–9.6	Thu	10:45–12:45	H4	Quantum Metrology
QI 10.1–10.7	Thu	10:45–12:30	H5	Certification and Benchmarking of Quantum Systems
QI 11.1–11.6	Thu	14:00–16:00	H4	Quantum Communication
QI 12.1–12.6	Fri	10:45–12:45	H3	Quantum Simulation and Many-Body Systems
QI 13.1–13.7	Fri	10:45–12:30	H4	Quantum Information and Foundations II
QI 14.1–14.3	Fri	14:00–15:30	H3	Quantum Computing in Industry