

2024_MQV Annual Meeting_ Parallel Sessions_Overview

8th October

17:00 – 17:40	Surface Code quantum error correction for TAQC neutral atoms (K3, K8, K6) (TAQC, Müller & group, Kilian & group, Hartmann & group, others) F006 Jesuitenrefektorium, Bischöfliches Seminar	Benchmarking mid-scale devices (K1, K7, others) F104 HI. Thomas, Bischöfliches Seminar	Scaling SQQC Fabrication, 3D architectures, QPU packaging (K1, K6, others) Holbeinsaal, Altes Stadttheater
17:40 – 18:20	Compilation and execution of logical circuits (K3, K5, K6, K8, others) (Wille & group, TAQC, Müller & group, Kilian & group, Hartmann & group, others) F006 Jesuitenrefektorium, Bischöfliches Seminar	Progress on the SW Stack (K1, K5, others) F104 HI. Thomas, Bischöfliches Seminar	Multiplexing Architectures (K1, K6, others) Holbeinsaal, Altes Stadttheater

9th October

17:00 – 17:40	Supporting End Users in Implementing Quantum Computing Applications and tooling (organized by TUM) (all Ks, others) F006 Jesuitenrefektorium, Bischöfliches Seminar	Architectures for alternative qubits, Theory-Experiments intersections (K1, K4, others) Holbeinsaal, Altes Stadttheater
17:40 – 18:20	Quantum circuit cutting and compilation (Orga. FhG-IIS) (all Ks, others) F006 Jesuitenrefektorium, Bischöfliches Seminar	Realistic implementations for mid-scale devices (K1, K3, K7, others) Holbeinsaal, Altes Stadttheater

10th October

17:10 – 17:50	Application-driven benchmarking of mid scale devices (Orga. FhG-IKS) (all Ks, others) F006 Jesuitenrefektorium, Bischöfliches Seminar	Fidelity needed for application/SC qubit error correction (K1, K7, K4, K8, others) F104 HI. Thomas, Bischöfliches Seminar
17:50 – 18:30	Quantum AI (TAQC, K4/K8, K7, incl. Marquardt & team, Lorenz & team) F006 Jesuitenrefektorium, Bischöfliches Seminar	Session can continue in HI. Thomas if necessary