

## MQV Review Meeting 2023

### Scientific Posters Day 1, Sept 26<sup>th</sup>, 2023

Serial No	Poster Number	Title	Presenter (s)
1	R&D – SP1	Applied Quantum Theory	Peter Rabl
2	R&D – SP2	Integrated Photonics for Quantum Devices	Andreas Stute
3	K3 – SP1	Photonic Modulator Networks	Klara Meyer-Hermann
4	K3 – SP2	Supporting technologies for quantum computing	Max Melchner
5	K3 – SP3	Digital quantum computing with Ytterbium	Bodo Kaiser
6	K3 – SP4	High-fidelity detection of atom arrays in an optical lattice	Renhao Tao
7	K6 –SP1	Semiconductor Technology and Integration for Functional and Scalable QC-Hardware	PIs from K6
8	K1 – SP1	SC Qubit Fabrication	K1 member
9	K1 – SP2	Fluxonium Qubits	K1 member
10	K5 – SP1	The Munich Quantum Toolkit	Lukas Burgholzer

### Scientific Posters Day 2, Sept 27<sup>th</sup>, 2023

Serial No	Poster Number	Title	Presenter (s)
1	K5 –SP2	The Munich Quantum Software Stack	Martin Ruefenacht
2	K5 –SP3	Figures of Merit and Constraints - Connecting Compilation Tools and Hardware Platforms	Jorge C.
3	K4 – SP1	Problem specific classical optimization of Hamiltonian simulation	Refik Monsuroglu
4	K4 – SP2	Quantum Parallelized Variational Quantum Eigensolvers for Excited States	Chen-Ling Hong
5	K4 – SP3	Quantum information spreading and scrambling in a distributed quantum network	Kiran Adhikari
6	K8 –SP1	Optimal control of quantum gates and related frameworks	Leo Van Damme, Matteo Puviani, Santana Lujan
7	K8 – SP2	Numerical modelling of hardware and co-design	Michael Hartmann, Richard Mildhardt
8	K8 – SP3	Error correction and benchmarking protocols	Josias Old, Julio Carlos
6	K7 – SP1	Supporting End Users in Realizing Quantum Computing Applications	Nils Quetschlich
7	K7 –SP2	Architecture choices for applications of quantum reinforcement learning	Theodora-Augustina Dragan

**Consortium & Cross-sectional Topic Poster** (to be displayed throughout the event)

<b>Serial No</b>	<b>Poster Number</b>	<b>Title</b>	<b>Presenter (s)</b>	<b>Allocated Day</b>
1	K1 (Consortia)	6 Qubit Device	K1 member	1 and 2
2	K3 (Cross-sectional)	Cross-sectional topics of K3 and collaboration with other consortia	Lorenzo Festa	1 and 2
3	K3 (Consortia)	The MQV neutral-atom quantum computing demonstrator	Robin Eberhard	1 and 2
4	K4 (Consortia)	Theoretical Quantum Computing Overview	Johannes Hauschild/Michael Knap	1 and 2
5	K5 (Consortia)	Challenges in HPCQC Integration	Amar Elsharkawy	1 and 2
6	K6 (Consortia)	Developing Electronic Components and Systems	Thomas Thönes	1 and 2
7	K7 (Consortia)	Quantum Algorithms for Applications, Cloud and Industry	Pascal Debus/ K7 member	1 and 2
8	K8 (Consortia)	Hardware Adapted Theory	Amit Devra	1 and 2
9	K9 (Consortia)	Quantum Science and Technology Education in Bavaria	K9 PIs	1 and 2