MCQST Conference Schedule 2022

Time	Monday, 4 July	Tuesday, 5 July	Wednesday, 6 July	Time
8:00		**Women* in QST Breakfast** A casual networking breakfast for women* working in QST		
9:00		**Christian Roos** | University of Innsbruck Quantum simulations with one- and two-dimensional ion crystals	Hotel Checkout	9:00
9:30		**Sebastian Blatt** | LMU München Q-Technology, Q-Simulations, and Precision Measurements with Ultracold Strontium	**Björn Sbierski** | LMU München Pseudo-Majoranas for Spin-1/2: Advanced Diagrammatics and Applications	9:30
10:00		**Zohreh Davoudi** | Univ. of Maryland Gauge theories, trapped ions, and NISQ-era simulation strategies	**Timon Hilker** | MPQ Garching Quantum gas microscopy of antiferromagnets with and without doping	10:00
10:30		Coffee Break	Coffee Break	10:30
11:00		**Eugenia Colafranceschi** | Univ. Nottingham Modelling black hole horizons via random tensor networks	**Norbert Lemke** | OHB System AG Title TBA	11:00
11:30		**Christian Degen** | ETH Zürich Quantum Sensors in Diamond: Technology and Applications	**Tim van Leent** | LMU München Quantum communication experiments with neutral single-atoms	11:30
12:00	Lunch (until 13:15)	**Christian Back** | TU München High resolution spinwave imaging	**PhD Prize** Ceremony & Presentations Anabelle Bohrdt & Benjamin Merkel	12:00
12:30		Lunch	Lunch	12:30
13:20	Welcome			
13:30	**Sevag Gharibian** | Univ. of Paderborn Title TBA			
14:00	**Michael Wolf** | TU München Squaring the circle - some quantum consequences	**Ana Predojević** | Stockholm University Quantum light sources: entanglement generation in semiconductor photonic structures	**Martin B. Plenio** | Ulm University Quantum Sensing at the Nanoscale	14:00
14:30	**David DeMille** | Univ. of Chicago Probing PeV-scale physics with AMO techniques	**Andreas Reiserer** | MPQ Garching Erbium dopants - a novel platform for quantum networks	**Menno Poot** | TU München Towards a monolithically-integrated on-chip quantum optics platform	14:30
15:00	**Stephan Dürr** | MPQ Garching The Chase for High Efficiency in Optical Quantum Gates	**Johannes Knolle** | TU München Anomalous Quantum Oscillations in Topological Materials	**Steffen Glaser** | TU München Optimal control, tomography and visualization of quantum information processing	15:00
15:30	Conference Photo / Coffee Break	Coffee Break	Coffee Break	15:30
16:00	**Senthil Todadri** | MIT The dipolar Bose Hubbard model	**Marc Janoschek** | University of Zurich Topological magnon band structure of emergent Landau levels in a skyrmion lattice	Departure	16:30
16:30	**Dmitri Efetov** | LMU München Plethora of Many-Body Ground States in Magic Angle Twisted Bilayer Graphene	**Ángela Capel Cuevas** | Univ. of Tübingen When does a quantum dissipative evolution mix rapidly?		
17:00	**Natalie Klco** | CalTech Quantum fields: quantum simulating (with) an entangled fabric	**Janis Nötzel** | TU München Quantum Technology: Perspectives in Classical Networking		
17:30	**Tim Langen** | Univ. of Stuttgart Supersolidity in dipolar Bose-Einstein condensates	**Tanja Kubes** | FU Berlin Diversity / Equity Social Inscriptions in Science and Technology		
18:30	Dinner	Dinner		
20:00 - 21:00	Poster Session 1	Poster Session 2		

- Research Unit A - **Quantum Information Theory**
- Research Unit B - **Quantum Simulation**
- Research Unit C - **Quantum Computing**
- Research Unit D - **Quantum Communication**
- Research Unit E - **Quantum Metrology and Sensing**
- Research Unit F - **Quantum Matter**
- Research Unit G - **Explorative Research**
- **Special Sessions**

*We use an inclusive definition of "woman" and we welcome trans women and non-binary people who are significantly female-identified.