

**Monday, 18 May**

9:30-9:40	IQST Directors	Welcome and opening
9:40-10:05	Sebastian Loth (FMQ, USTU)	Big signals from small atoms
10:05-10:15	Haonan Huang (MPI)	Tunnelling processes between discrete Yu-Shiba-Rusinov states
10:15-10:35	Matthias Hepting (MPI)	Quantum phenomena in cuprates and nickelates revealed by x-ray and neutron spectroscopy
10:35-10:45	Fabio Di Pumpo (Inst. Quantenphysik UUIm)	UGR tests with atomic clocks and atom interferometers
10:45-10:55	Julian Maisch (IHFG, USTU)	Towards a hybrid single-electron single-photon device
10:55-11:15	Coffee Break	
11:15-11:40	Ronny Nawrodt (Didactic, USTU)	Presentation of the Physics Education Activities
11:40-12:00	Gregoy McMurtrie (FMQ, USTU)	Introducing Discord as a virtual work space

**Tuesday, 19 May**

09:30-09:55	Ilia Polian (ITI, USTU)	You have to walk before you run: The near future of quantum computing
09:55-10:15	Florian Kaiser/ (pi3, USTU)	Solving the sampling rate issue of quantum optical sensors
10:15-10:40	Christof Gebhardt (Biophysics, UUIm)	Quantitative single molecule imaging in living cells and organisms
10:40-10:50	Domenico Paone (MPI)	Measuring Superconducting Phase Transitions with NV Centers in Diamond
10:50- 11:05	Coffee break	
11:05-11:25	Mario Hentschel (pi4, USTU)	Advanced Micro- and Nanofabrication
11:25-11:35	Simon Rupp (IQM, UUIm)	Towards cavity controlled ultracold chemistry
11:35-12:05	Frank Kirchhoff (Uniklinikum, UUIm)	Pandemic viral pathogens: evasion and counteraction of immune control

**Wednesday, 20 May**

09:30-09:55	Jens Anders (IIS, USTU)	Dancing with the spins
09:55-10:15	Björn Kubala (ICQ, UUIm)	Sensing at the quantum limit with scanning tunnelling microscopy at mK-temperatures
10:15-10:25	Michael Schmid (FMQ, USTU)	Modelling real materials with DFT+DMFT
10:25-10:50	Joris van Slageren (IPC, USTU)	Electrical readout of molecular quantum bits
10:50-11:10	Coffee break	
11:10-11:30	Florian Meinert (pi5, USTU)	Quantum many-body systems with circular Rydberg states
11:30-11:50	Bülent Demirel (FMQ, USTU)	Tests of quantum correlations for quantum enhanced computing
11:50-12:00	Mahdieh Schmidt (IQST)	Closing remarks