

Time	Monday, September 19	Time	Tuesday, September 20	Time	Wednesday, September 21	Time	Thursday, September 22
		09:00	Single-molecule nanocatalysis Peng Chen	09:00	Plasmons as sensor for bio-molecules Carsten Sönnichsen	09:00	Unraveling the mechanics of a repeat-protein nanospring by single molecule optical tweezers Johannes Stigler
10:05	Welcome	09:45	Nonlinearity and Dissipation as a Formidable Resource in Engineered Quantum Systems Anja Metelmann	09:45	Breaking Speed and Resolution Limitations of AFM Simon Scheuring	09:45	Giant interactions of Rydberg excitons in Cu ₂ O Julian Heckötter
10:15	Shedding Light on Spins: Materials for Quantum Technologies Mete Atatüre	10:30	Coffee break	10:30	Coffee break	10:30	Coffee break
11:00	Coffee break	11:15	Single nanoparticle flow virometer: counting Virus nanoparticles one at a time at high specificity, high sensitivity in minutes Eitan Lerner	11:15	RNA and cations in biomolecular simulations: A highly charged problem Nadine Schwierz	11:15	Exploring life at the single-molecule level Johannes Hohlbein
11:45	Plethora of Many-Body Ground States in Magic Angle Twisted Bilayer Graphene Dmitri Efetov	12:00	Atomistic defects in 2D materials as quantum emitters Alexander Holleitner	12:00	Quantum optics meets microscopy: An ultra-sensitive microresonator platform by Qlibri Jonathan Noé	12:00	Nanostructured gates for electrostatic superlattices of bosons and fermions in 2D materials Nathan Wilson
12:30	Flow and extraction of energy and charge carriers in hybrid plasmonic nanostructures Suljo Linic		Lunch (12:45-13:45)		Lunch (12:30-13:30)		Lunch (12:30-13:45)
	Lunch (13:15-14:15)	13:45	From Metal to Metal-free Heterogeneous Catalysts: A Journey Into More Sustainable Chemical Processes Paolo Fornasiero	13:30	Light-field control of electrons in graphene heterojunctions Tobias Boolakee	13:45	Quantum sensing of phonons and photons with strongly driven Josephson resonators Gary Steele
14:15	Bringing electrostatics to light: Electrometry probes a new dimension at the molecular scale Madhavi Krishnan	14:30	Poster Flash Talks 1	14:00	Developing spin-based microscopy for magnetic imaging of spin waves Toeno van der Sar	14:30	Poster Flash Talks 2
15:00	A low-noise quantum dot in a one-sided microcavity Richard Warburton		Group Picture outside	14:45	Novel magnetic materials hosting skyrmions for spintronics Aisha Aqeel		
15:45	Coffee break	15:00	Posters session 1 & coffee			15:00	Posters session 2 & coffee
16:30	Strong coupling between molecular vibrations and phonon polaritons in van der Waals materials Rainer Hillenbrand	17:00	Billion times more sensitive than patch clamp – Single molecule measurements of transport reveal ubiquitous off-cycle states that regulate the activity of transporters Dimitrios Stamou	15:15	Discussions	17:00	Counting Molecules in Single Cells Helmut Strey
17:15	Diamond-based quantum sensors for nano- and microscale magnetic resonance Dominik Bucher	17:45	Quantum photonics: interference beyond HOM, entanglement, and quantum networks Stefanie Barz			17:45	Optomagnonics in dispersive media Victor Bittencourt
18:00	Welcome Reception					18:30	Closing Remarks