

International Conference on Quantum Cooperativity of Light and Matter

Tuesday, 10.10.2023		
Time	Title	Speaker
12:00 - 14:00	Registration / Welcome Lunch	
14:00	Welcome	
		Chair of following session: Morigi
14:30	Collective photon emission of correlated sources in the optical and the x-ray domain	von Zanthier
14:50	Quantum Optics based on dipolar interactions between hot atoms	Pfau
15:35	Collective light scattering of ion crystals to reveal spin-order	Schmidt-Kaler
15:55	Coffee Break	Chair of following session: Schmidt-Kaler
16:30	New regimes in nuclear cooperative emission	Röhlsberger
16:50	Waveguide QED with Mössbauer Nuclei	Andrejic
17:15	Controlling long-range interactions by off-resonant driving	Fadler
18:30	Get Together at Kitzmann Bräuschänke	

Wednesday, 11.10.2023		
Time	Title	Speaker
		Chair of following session: Jung
09:00	Manipulating Matter by Strong Coupling to the Vacuum Field	Ebbesen
09:45	Ab-initio modelling for molecular polaritons with and without an external magnetic field	Stopkiewicz
09:45	Cooperative quantum optics with molecules	Genes
10:05	Metasurface-based hybrid optical cavities for chiral sensing	Baßler
10:25	Coffee Break	Chair of following session: Palfy-Buß
11:15	Structured Random Driving	Moessner
12:00	Competing light-matter assemblies	Schmidt
12:20	Quantum Phases of Dipolar Bosons	Kozioł
12:40	Lunch	Chair of following session: Becher
14:30	Topological physics in non-linear polariton lattices	Bloch
15:15	Fractal ground state of one-dimensional Wigner crystals in periodic potentials	Menu
15:35	Correlation and number statistics of free electrons triggered from metal needle tips	Heimerl
15:55	Coffee Break	Chair of following session: Götzinger
16:30	Entanglement engineering in Quantum Networks	Rempe
17:15	Molecular dimers: Electronic coupling and beyond	Basché
17:35	Variational Monte Carlo in the Heisenberg picture	Macek
18:30 - 20:30	Poster Session	

Thursday, 12.10.2023		
Time	Title	Speaker
		Chair of following session: von Zanthier
09:00	Rotating dipolar quantum gases	Ferlaino
09:45	Exploring spin at unconventional hybrid interfaces	Wittmann
10:25	Theory of color centers in SiC towards the coupling of spin, light and mechanics	Bockstedte
10:45	Coffee Break	Chair of following session: Schmidt
11:15	Quantum simulation – Engineering & understanding quantum systems atom by atom	Aidelsburger
12:00	Cavity Magnomechanics: Harnessing the Magnomechanical Coupling for Applications in the Microwave and Optical Regimes	Viola Kusminski
12:20	Levitating the Future: Light, Magnet, and Fiber Unite!	Chakraborty
12:40	Lunch	
13:45 - 15:00	QuCoLiMa Project Leaders: General Assembly in Lecture Hall H QuCoLiMa Doctoral Researcher: Convent of the Doctoral Researcher in Lecture Hall C Guests etc.: Lab Tours per individual registration / Discussion	
15:30 - 17:30	City Tour "University and medical city Erlangen"	
18:00 - 22:30	Conference Dinner at Oberle Kosbach	

Friday, 13.10.2023		
Time	Title	Speaker
		Chair of following session: Genes
09:00	Minimalistic efficient quantum devices build of dipole coupled nano arrays of quantum emitters	Ritsch
09:45	A Rydberg platform for non-ergodic chiral quantum dynamics	Valencia Tortora
10:05	Quantum Kinetic Theory of Self-organization in Many-body Cavity QED	Schmit
10:25	Collectively Enhanced Giant Circular Dichroism of Germanium Nanohelix Square Lattice Arrays	Ellrott
10:45	Coffee Break	Chair of following session: von Zanthier
11:15	Observation of superradiant bursts in a cascaded quantum system	Rauschenbeutel
12:00	Closing Remarks	
12:40	Farewell Lunch	