

# RTG School 2022 - Schedule

TRR 306

**QuCoLiMa**



Quantum Cooperativity of Light and Matter

06.10.22

Sunday, 09.10.2022	
Time	Title
14:00	Bus Departure from Erlangen (parking place west - Großparkplatz)
16:00	Registration
<b>Dinner</b>	
17:30	
19:00	Bus transfer to "Nachtwächterführung"
19:30	<b>City tour "Nachtwächterführung"</b>
20:30	1st Bus transfer back to the hotel
20:30	Pub Brauhaus Keiler (at own expense)
22:00	2nd Bus transfer back to the hotel

Monday, 10.10.2022		
Time	Title	Speaker/s
from 07:00	<b>Breakfast</b>	
08:45	Welcome	Schmidt / von Zanthier
09:00	<b>Continuous-variable quantum information</b>	Peter van Loock
09:30	Incoherent diffractive imaging of (non)regular structures at the european XFEL	Sebastian Karl
09:45	Superradiance of non-interacting atoms	Manuel Bojer
10:00	Variational quantum eigensolver ansatz for the J1-J2-model	Verena Feulner
10:15	Synchronization in non-hermitian quantum systems	Jonas Rohn
10:30	<b>Coffee Break</b>	
11:00	<b>Divide and conquer - tackling quantum matter</b>	Kai Phillip Schmidt
11:30	Continuously varying critical exponents in long-range quantum spin ladders	Patrick Adelhardt
11:45	Linear optical elements based on cooperative subwavelength emitter arrays	Nico Baßler
12:00	Helical arrays as a metasurface to study cooperative effects of light matter interaction	Günter Ellrott
12:15	Magnon-photon coupling in dispersive media	Victor Bittencourt
12:30	<b>Lunch</b>	
14:15	Softskill Seminar: Science Communication	Nadine Lux
15:45	<b>Coffee Break / Individual Discussions</b>	
16:30	Softskill Seminar: Science Communication	Nadine Lux
19:00	<b>Barbecue</b>	

Tuesday, 11.10.2022		
Time	Title	Speaker/s
from 07:00	<b>Breakfast</b>	
09:00	<b>Bose-Hubbard models in cavity QED</b>	Giovanna Morigi
09:30	Mini Thesis Optimal broad-band frequency conversion via a magnomechanical transducer	Fabian Engelhardt
09:55	Dynamics of strongly coupled Yb atoms in a high-finesse cavity	Saran Shaju
10:10	The carbon di-vacancy-antisite complex as origin of the TS center	Maximilian Schober
10:25	<b>Coffee Break</b>	
11:00	<b>Machine learning for quantum technologies</b>	Florian Marquardt:
11:30	Mini Thesis QMC simulations of the Ising model in a light-induced quantized transverse field	Anja Langheld
11:55	Photoacids on the single-molecule level	Julia Berger
12:10	Systematic analysis of diagonal ordering patterns in bosonic lattice models	Jan Koziol
12:25	Universal cooling dynamics towards a quantum critical point	Emma King
12:40	<b>Lunch</b>	
14:30	<b>Convent of doctoral researchers (CDR) - open for all (Doctoral) Students</b>	
16:00	<b>Coffee Break</b>	
16:00	<b>Poster Session</b>	
-18:30	<b>Poster Session</b>	
19:00	<b>Dinner / Merger with Annual Meeting</b>	