Annual Meeting 2022 - Schedule

TRR 306
QuCoLiMa
Quantum Cooperativity of Light and Matter

07.10.22

Tuesday, 11.10.2022		
17:00 - 19:00	Early Registration	
from 19:00	**Welcome Dinner**	
20:00 - 22:00	Late Registration	

Wednesday, 12.10.2022			
Time	**Project**	**Title**	**Project leader(s)**
from 07:00	**Breakfast**		Chair of following session: Schmidt
08:20		Welcome	**von Zanthier / Schmidt**
08:30	**A01**	Cooperative light emission and spatio-temporal photon correlations from trapped ion arrays	**von Zanthier / Schmidt-Kaler**
09:00	**A05**	Cooperative effects of a defined number of organic molecules embedded in a dielectric antenna	**Götzinger**
09:20	**A06**	Tailor-made beyond-one-excitation quantum states for quantum information and communication	**van Loock**
09:40	**B01**	Collective quantum dynamics of structural- and spin-defects in ion crystals	**Schmidt-Kaler / Morigi**
10:00	**D01**	Cooperative effects in coupled quantum emitter systems	**Genes**
10:20	**Coffee Break**		Chair of following session: Schmidt-Kaler
10:50	**D02**	Spatio-temporal structures in interacting spin systems	**Morigi**
11:10	**D03**	Competing interactions in strongly correlated light-matter assemblies	**Schmidt**
11:30	**Extern**	Quantum thermodynamics in open quantum systems	**Géraldine Haack (Université de Genève)**
12:30	**Lunch**		Chair of following session: Palffy-Buß
14:20	**C02**	Light induced correlations in dense atomic media	**Windpassinger / Schmidt**
14:40	**C03**	Mechanical and chemical control of single and multiphoton emission	**Basché / Jung**
15:10	**C01**	One-dimensional photon-mediated cooperativity of quantum emitters	**Sandoghdar**
15:30		**Research Data Management**	
16:30	**Coffee Break / Individual Discussions**		Chair of following talk: Morigi
17:00	**Intro**	Ab-initio modelling for molecular polaritons with and without an external magnetic field	**Stella Stopkowicz (UdS)**
17:30		**General Assembly (Project Leaders only)**	**von Zanthier / Schmidt**
19:00	**Dinner**		
20:00	**Poster Session**		

Thursday, 13.10.2022			
Time	**Project**	**Title**	**Project leader(s)**
from 07:00	**Breakfast**		Chair of following session: Becher
08:30	**B03**	Point defects in silicon carbide: Towards a platform for the coupling of light, spin and mechanics	**Weber / Neu-Ruffing / Bockstedte**
08:50	**B05**	Optomagnomechanical arrays	**Viola Kusminskiy**
09:10	**B02**	Levitated ferrimagnetic particles in hollow-core photonic crystal fibres	**Joly / Russell**
09:30	**C04**	X-ray photonic structures for control of cooperative emission from resonant nuclei	**Pálffy-Buß / Röhlsberger / von Zanthier**
10:00	**C05**	Quantum cooperative chiral metasurfaces for producing nonclassical light	**Krstić / Chekhova**
10:30	**Coffee Break / Group photo**		Chair of following session: Genes
11:00	**D04**	Synchronising quantum spins with long-range dissipation	**Marino**
11:20	**D05**	Quantum Cooperativity and Synchronization	**Marquardt**
11:40	**D06**	Entangling collective behavior of quantum materials and quantum light	**Eckstein**
12:00	**A02**	Generation of photonic cluster states from color center-cavity systems	**Becher**
12:20	**A04**	Spatio-temporal correlations of electrons emitted from femtosecond laser-driven needle sources	**Hommelhoff**
12:40	**Lunch**		
14:00 - 17:00	**Excursion including Coffee & Cake**		Chair of following session: Schmidt
17:00	**Extern**	Rydberg atoms as new Frontier in Quantum Magnetism	**Andreas Läuchli (Paul Scherrer Institut)**
18:00	**Diversity talk**	QuCoLiMa - why asking for only part of the cake?	Karen Böhme
19:00	**Dinner**		
20:00	**Individual Discussions**		

Friday, 14.10.2022			
Time	**Project**	**Title**	**Project leader(s)**
from 07:00	**Breakfast**		Chair of following session: Marino
08:30	**A03**	Correlated x-ray photons for incoherent diffraction imaging	**Röhlsberger / von Zanthier**
08:50	**B04**	Optomechanical lasing mechanisms in cold atoms	**Eschner**
09:10	**Extern**	What chiral molecules can teach us about quantum control	**Christiane Koch (FU Berlin)**
10:10	**Coffee Break**		Chair of following session: Schmidt-Kaler/von Zanthier
10:50	**Extern**	Dissipative time crystals in an atom-cavity system	**Andreas Hemmerich (Universität Hamburg)**
11:50	**Z02**	Quantum simulation methods for cooperative effects in strongly correlated light-matter systems	**Hartmann / Wilhelm-Mauch**
12:30	**Closing / Lunch**		
14:00		Bus Departure to Erlangen from Hotel	