



GiRyd Status Workshop, 25 – 27 March 2019

GiRyd PhD Workshop, 27 March 2019

hosted by Technische Universität Kaiserslautern

Programme

Monday, 25 March 2019

9:00 am	Welcome and Workshop Opening	Lecture Hall 42-110
Session Chair: Michael Fleischhauer		
9:15 am	<ul style="list-style-type: none"> • Invited Talk - Wenhui Li: tbc • Hainaut: tbc 	Lecture Hall 42-110
10:20 am	Coffee Break	Seminar Room 42-133
10:50 am	<ul style="list-style-type: none"> • Whitlock: Non-equilibrium universality in ultracold Rydberg gases • Zeppenfeld: Efficient detection of cold polar molecules via Rydberg atoms • Weimer: Open system quantum simulation with Rydberg atoms • Panas: Ordered states of Rydberg-dressed ultracold quantum gases in optical lattices: 	Lecture Hall 42-110
12:30 pm	Lunch	Mensa
Session Chair: Herwig Ott		
2:00 pm	<ul style="list-style-type: none"> • Birkl: Defect-free 2D clusters of single-atom quantum systems for Rydberg physics • Rui: Quantum gas microscopy of Rydberg macrodimers • Fortagh: Rydberg atoms in a superconducting coplanar microwave cavity • Kraus: tbc • Fleischhauer: Quantum Hall Physics with Rydberg Polaritons 	Lecture Hall 42-110
4:00 pm	Coffee Break	Seminar Room 42-133
4:30 pm	<ul style="list-style-type: none"> • Eiles: tbc • Deiglmayr: Exciting ultracold ion pairs via long-range Rydberg molecules • Saenz: Interacting Rydberg wavepackets • Schmelcher: Ultralong-range molecules - species and 	Lecture Hall 42-110

	structures <ul style="list-style-type: none"> • Schmidt: Polaron formation in Rydberg systems and Rydberg excitations as a probe of correlated quantum matter 	
7:00 pm	Poster Session and Buffet Style Dinner	Foyer 42

Tuesday, 26 March 2019

Session Chair: Wenhui Li		
8:45 am	<ul style="list-style-type: none"> • Invited Talk - Charles Adams: Collective light-matter interactions in Rydberg quantum optics • Büchler: tbc • Dürr: Perspectives for a photon-photon gate based on Rydberg interactions in an optical cavity 	Lecture Hall 42-110
10:20 am	Coffee Break	Seminar Room 42-133
10:50 am	<ul style="list-style-type: none"> • Assmann: Towards time-resolved Rydberg exciton blockade • Giessen: tbc • Scheel: tbc • Main: Rydberg excitons in cuprous oxide 	Lecture Hall 42-110
12:30 pm	Lunch	Mensa
Session Chair: Tilman Pfau		
2:00 pm	<ul style="list-style-type: none"> • Invited Talk - Alexey Gorshkov: tbc • Gross and Lesanovsky: tbc • Cui: tbc 	Lecture Hall 42-110
3:40 pm	Coffee Break	Seminar Room 42-133
4:00 pm	<ul style="list-style-type: none"> • Pfau: GiRyd Coordination Session 	Lecture Hall 42-110
5:00 pm	End of sessions and walk to conference dinner venue	
7:00 pm	Conference Dinner	

Wednesday, 27 March 2019

Session Chair: Gerhard Rempe		
8:45 am	<ul style="list-style-type: none"> • Schmidt-Kaler: Rydberg Ions in Motion • Meinert: tbc • Hecker Denschlag: Long-range Rydberg molecules • Ott: A reaction microscope for few-body Rydberg physics 	Lecture Hall 42-110
10:20 am	Coffee Break	Seminar Room 42-133

10:50 am	<ul style="list-style-type: none"> • Koch: tbc • Görlitz: Towards interacting ytterbium Rydberg atoms • Loew: tbc • Islam: tbc 	Lecture Hall 42-110
12:30 pm	Lunch and departure for PIs and invited speakers	Mensa
2:00 pm - 6:00 pm	<p>GiRyd PhD Workshop</p> <p>2:00 pm Welcome and general discussion</p> <p>2:30 pm PhD student talks (10 + 5 Min. each)</p> <p>3:40 pm Coffee Break</p> <p>4:10 pm PhD student presentations (10 + 5 Min each)</p> <p>5:00 pm Lab Tours</p> <p>6:00 pm End of PhD Workshop</p> <p>7:00 pm Pub crawl in Kaiserslautern</p>	Lecture Hall 42-110

All information as of 25/02/2019