

Program

Sunday, 17 March 2019

17:00 – 20:00 Registration

18:00 *BUFFET SUPPER and informal get-together*

Monday, 18 March 2019

08:00 *BREAKFAST*

08:55 – 09:00 Scientific organizers **Opening remarks**

09:00 – 09:45 Niek F. van Hulst **Ultrafast excitation & detection of single photon emitters**

09:45 – 10:30 Johannes Feist **Ultrafast coupled photonic, electronic, and nuclear dynamics in molecular polaritons**

10:30 – 11:00 *COFFEE BREAK*

11:00 – 11:45 Javier Garcia de Abajo **Plasmonics in atomically thin materials**

11:45 – 12:10 James Lim **Multi-color quantum control for isolating excited state coherences in 2D electronic spectroscopy**

12:10 – 12:40 Stefan Y. Buhmann **The influence of retardation, dielectric environments and mediating atoms on interatomic Coulombic decay**

12:40 *LUNCH*

Program

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14:00 – 14:45	Matthew Otten	Optical detection and storage of dissipation driven entanglement in plasmonically coupled quantum dots
14:45 – 15:10	Bert Hecht	Strong coupling of single quantum dots to plasmonic nano resonators at room temperature
15:10 – 15:35	Markus Lippitz	Plasmonic quantum circuits
15:35 – 16:30	COFFEE BREAK and Poster	
16:30 – 17:15	Shaul Mukamel	Probing elementary molecular events, conical intersections, and chirality by ultrafast x-ray pulses and quantum light in microcavities
17:15-18:00	Doris Reiter	Influence of electron-phonon interaction on optical signals from semiconductor quantum dots
18:00 – 18:25	Alfred Leitenstorfer	Charge and spin dynamics in single-electron compound nanosystems
18:25 – 18:50	Christoph Lienau	Coherent exchange of surface plasmons between a metal tip and a gold nanorod probed with nanometric resolution
18:50 – 20:00	DINNER	
20:00	Poster Session	

Program

Tuesday, 19 March 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:15	Stefan Jorda	About the WE-Heraeus-Foundation
09:15 – 10:00	Nina Owschimikow	Photon statistics beyond $g^{(2)}$
10:00 – 10:45	Stephane Guérin	Quantum optics and quantum control at the nanoscale via plasmonics
10:45 – 11:15	<i>COFFEE BREAK</i>	
11:15 – 12:00	Libai Huang	Long-range hot carrier transport in hybrid perovskites visualized by ultrafast microscopy
12:00 – 12:25	Donghai Li	Fluorescence-detected multidimensional spectroscopy of a 2D material
12:25 – 12:50	Frank Schlawin	Theory of coherent control with quantum light
12:50 – 13:00	Conference Photo (in the front of the lecture hall)	
13:00	<i>LUNCH</i>	

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Tuesday, 19 March 2019

14:30 – 15:15	Jeremy Baumberg	Extreme nanooptics with precision molecular assembly
15:15 – 15:40	Marten Richter	Nanoscale photon quantization in media using QNM
15:40 – 16:05	Thomas Zentgraf	Spatial entanglement of two-photon states with metasurfaces
16:05 – 16:30	<i>COFFEE BREAK</i>	
16:30 – 17:15	Claus Ropers	Quantum coherent electron-light interactions in ultrafast electron microscopy
17:15 – 17:40	Nahid Talebi	Quantum coherent interference paths in the generalized Kapitza-Dirac effect
17:40 – 18:05	Giovanni M. Vanacore	Attosecond coherent control of a free-electron wave function via semi-infinite light fields and plasmon polaritons
18:05 – 18:30	Peter Baum	Waveform electron microscopy of electromagnetic field cycles
19:00	<i>HERAEUS DINNER (social event with cold & warm buffet with complimentary drinks)</i>	

Program

Wednesday, 20 March 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Thomas Fennel	New routes to imaging the classical and quantum dynamics of finite systems
09:45 – 10:30	Vladislav Yakovlev	Optical-field control of electrons in solids
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Peter Hommelhoff	Femtosecond two-color physics in the nearfield of nanometer sharp metal tips
11:45 – 12:10	Boris Bergues	Few-cycle laser driven reaction nanoscopy on isolated nanoparticles
12:10 – 12:30	Open Discussion and Closing Remarks	
12:30	<i>LUNCH</i>	

End of the seminar and departure

NO DINNER for participants leaving on Thursday morning