Sunday, 10 April 2016

17:00 – 21:00 Registration

18:30 DINNER / Informal get together

Monday, 11 April 2016

08:00	BREAKFAST	
08:45	Scientific organizers	Welcome and Opening
09:00 - 10:00	Carsten Henkel	Basics of non-equilibrium electrodynamics on the nano-scale
10:00 - 11:00	Stefan Scheel	Introduction to macroscopic QED and its applications
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:50	Poster flash presentations	
12:50	Conference Photo (in the foyer of the lecture hall)	
13:00	LUNCH	

Monday, 11 April 2016

14:30 – 15:30	Svend-Age Biehs	Laws of thermal radiation for hyperbolic materials
15:30 – 16:30	Yannick de Wilde	Near-field probing of the thermal radiation
16:30 – 17:00	COFFEE BREAK	
17:00 – 17:20	Susumu Komiyama	Imaging non-equilibrium phenomena with electromagnetic evanescent waves
17:20 – 17:40	Zhenghua An	Nanothermometrical study of electron transport by passive scanning near- field infrared imaging
17:40 – 18:00	Raul Esquivel-Sirvent	Magnetic tuning of near field radiative heat transfer in quantum wells
18:30	DINNER	
19:30 – 21:00	Poster session I	

Tuesday, 12 April 2016

08:00	BREAKFAST	
09:00 - 10:00	Alejandro Rodriguez	Molding the flow of heat: Limits and modifications to heat transfer at the nanoscale
10:00 - 11:00	Sheng Shen	Nanostructured materials for thermal radiation control in near- and far-fields
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:30	Brahim Guizal	Heat transfer and Casimir-Lifshitz interactions between diffraction gratings: numerical methods
12:30 – 12:50	Moladad Nikbakht	Radiative heat transfer in fractal structures
13:00	LUNCH	
14:30 – 15:30	Pramod Sangi Reddy	Radiative heat transfer in nanoscale gaps
15:30 – 16:30	Michal Lipson	Enhancing near field thermal radiation using MEMS
16:30 – 17:00	COFFEE BREAK	
17:00 – 17:20	Tomáš Králík	Low temperature experiment on near field heat transfer between dielectrics, metals and superconductors
17:20 – 17:40	Ilari Maasilta	Near-field heat transfer at low temperatures: Recent advances
17:40 – 18:00	Bong Jae Lee	Probing near-field thermal radiation between two parallel plates using MEMS-based platform
18:30	DINNER	
19:30 – 21:00	Poster session II	

Wednesday, 13 April 2016

09:00 - 10:00	Philippe Ben-Abdallah	Thermotronics: Toward the development of circuits to manage radiative heat flux
10:00 - 11:00	Karl Joulain	Thermal transistor in the dynamical regime and the quantum regime
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:30	Mika Prunnila	Heat transport engineering in membranes and junctions for detectors and refrigerators
12:30 – 12:50	Levan Chotorlishvili	Electromagnetically controlled multiferroic thermal diode
12:50 – 13:05	Stefan Jorda	About the Wilhelm and Else Heraeus- Foundation
13:10	LUNCH	

- 14:30 18:00 Excursion
- 18:30 HERAEUS DINNER (cold & warm buffet, free beverages)

Thursday, 14 April 2016

08:00	BREAKFAST	
09:00 - 10:00	Sebastian Volz	Polariton heat conduction in ultra- small gaps and junctions
10:00 - 11:00	Achim Kittel	Giant heat transfer at the nanometer scale
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:30	Shanhui Fan	Near-field thermal energy transfer in the presence of a non-zero chemical potential for photons
12:30 – 12:50	Karthik Sasihithlu	Phonon induced heat transfer across a vacuum gap
13:00	LUNCH	
14:30 – 15:30	Clivia Sotomayor Torres	Phonons in free-standing silicon membranes and in phononic crystals
15:30 – 16:30	Pierre-Olivier Chapuis	Heat conduction in 2D phononic structures
16:30 – 17:00	COFFEE BREAK	
17:00 – 17:20	Jose Ordonez-Miranda	Thermal energy transport in a surface phonon-polariton crystal
17:20 – 17:40	Konstantinos Termentzidis	Effect of amorphisation on the thermal properties of nanostructures
17:40 – 18:00	Fabian Menges	Thermometry and thermal transport measurements by scanning thermal microscopy
18:30	DINNER	

19:30 – 21:00 Poster session III

Friday, 15 April 2016

08:00	BREAKFAST	
09:00 - 10:00	Miguel Rubi	Near-field thermal radiation energy conversion
10:00 – 11:00	Aleksandr Volokitin	Giant enhancement of quantum friction above threshold velocity
11:00 – 11:30	COFFEE BREAK	
11:30 – 11:50	Igor Nefedov	Lateral drag forces, caused by electromagnetic fluctuations in a slab of anisotropic absorbing material
11:50 – 12:00	Scientific organizers	Closing remarks and poster awards
12:15	LUNCH	

End of the seminar and FAREWELL COFFEE / Departure

Please note that there will be **no** dinner at the Physikzentrum on Friday evening for participants leaving the next morning.