

Highland Spring School on Mesoscopic Physics: Towards quantum technologies

Contact: Pavel Zemánek, + 420 605 267 574

GPS 49°17'41"N, 15°29'14.05"E

24.4.2017
Monday

9:00:00	12:00:00	Transport to Trest (2 hrs from Prague, 3 hrs from Vienna)
12:00:00	13:30:00	Lunch, accomodation
13:30:00	14:30:00	Radim Filip (Palacký University Olomouc) <i>Introduction to quantum physics</i>
14:30:00	14:45:00	Break, coffee, tea, water, discussion,...
14:45:00	15:45:00	Arno Rauschenbeutel (Vienna Center for Quantum Science and Technology) <i>Chiral Quantum Optics</i>
15:45:00	16:00:00	Break, coffee, tea, water, cake, discussion,...
16:00:00	17:00:00	Andrey Rakhubovsky (Palacky University Olomouc) <i>Quantum optomechanics</i>
17:00:00	17:15:00	Break, coffee, tea, water, discussion,...
17:15:00	18:15:00	Lukáš Slodička (Palacky University Olomouc) <i>Trapped ions as source of nonclassical light</i>
18:15:00	18:30:00	Break, coffee, tea, water, discussion,...
18:30:00	19:30:00	Nikolai Kiesel (Vienna Center for Quantum Science and Technology) <i>Levitated and Cavity Optomechanics</i>
19:30:00	0:30:00	Dinner (roasted pork), poster session , beer, discussions, ...

25.4.2017
Tuesday

7:00:00	9:00:00	Breakfast
8:30:00	9:30:00	Markus Arndt (Vienna Center for Quantum Science and Technology) <i>The role of mass and complexity in quantum interference: Interfaces to chemistry, the life sciences and the classical world</i>
9:30:00	9:45:00	Break, coffee, tea, water, discussion,...
9:45:00	10:45:00	Kimin Park (Palacky University Olomouc) <i>Nonlinear quantum operations with trapped ions</i>
10:45:00	11:00:00	Break, coffee, tea, water, discussion,...
11:00:00	12:00:00	Ulrik Lund Andersen (Technical University of Denmark) <i>Squeezing enhanced opto-mechanics</i>
12:00:00	13:30:00	Lunch
13:30:00	14:30:00	Pavel Zemánek (Institute of Scientific Instruments of the CAS, Brno) <i>Optical trapping and levitation</i>
14:30:00	14:45:00	Break, coffee, tea, water, discussion,...
14:45:00	15:45:00	James Millen (Vienna Center for Quantum Science and Technology) <i>Rotational Optomechanics</i>
15:45:00	16:00:00	Break, coffee, tea, water, cake, discussion,...
16:00:00	17:00:00	Stefan Ostermann (University of Innsbruck) <i>Multiple scattering approach to collective light forces and interactions of polarizable particles in the field of optical fibers</i>
17:00:00	17:15:00	Break, coffee, tea, water, discussion,...
17:15:00	18:15:00	Peter Nisbet-Jones (National Physical Laboratory, Teddington) <i>Trapped-ion atomic clocks using Yb+</i>
18:15:00	18:30:00	Break, coffee, tea, water, discussion,...
18:30:00	19:30:00	Jochen Kronjaeger (National Physical Laboratory, Teddington) <i>Methods and applications of long-distance optical clock comparisons</i>
19:30:00	0:30:00	Dinner (raut), wine tasting, poster session , discussions, ...

26.4.2017
Wednesday

7:00:00	8:00:00	Breakfast
8:00:00	9:00:00	Ondřej Číp (Institute of Scientific Instruments of the CAS, Brno) <i>Experimental metrology and ions</i>
9:00:00	9:15:00	Break, coffee, tea, water, discussion,...
9:15:00	10:15:00	Gabriel Hétet (École Normale Supérieure, Paris) <i>Coupling a single electron to the motional state of a levitating particle</i>
10:15:00	10:30:00	Break, coffee, tea, water, discussion,...
10:30:00	11:30:00	Artem Ryabov (Charles University, Prague) <i>Stochastic thermodynamics</i>
11:30:00	11:45:00	Break, coffee, tea, water, discussion,...
11:45:00	12:45:00	Michal Kolář (University Palacky Olomouc) <i>Quantum thermodynamics</i>
13:00:00	14:00:00	Lunch
14:00:00	14:30:00	Transport invited foreign speakers to airports
15:30:00	16:30:00	
16:30:00	17:30:00	ISI labtour
17:30:00	18:30:00	
18:30:00	20:30:00	FREE EVENING IN BRNO