

Quantum optics and quantum phase transitions

Micro-workshop 20.01.2020, ÚPT AVČR Brno

Blok #1 Přednášky (cca. 9:00 - 10:30, přednáškový sál ÚPT)				90min
<u>1.</u>	Pavel Cejnar (MFF UK Praha)	Phase transitions in quantum spectra	60min	9:00-10:00
<u>2.</u>	Lukáš Slodička (UP Olomouc)	Experiments with ultracold trapped ions and atoms in Olomouc and Brno	30min	10:00-10:30
Coffee Break, Brainstorming,... (cca 10:30 - 12:30)				<u>20min</u>
Blok #2 Přednášky (cca. 10:50 - 12:30, přednáškový sál ÚPT)				100min
<u>3.</u>	Radim Filip (UP Olomouc)	Non-gaussian quantum optics	40min	10:50-11:30
<u>4.</u>	Pavel Stránský (MFF UK Praha)	Time correlators as a measure of quantum chaos in quantum optics models	30min	11:30-12:00
<u>5.</u>	Michal Kloc (Univ. of Basel)	Performance of quantum heat engines based on the Lipkin-Meshkov-Glick model	30min	12:00-12:30
Lunch, Brainstorming,... (cca. 12:30 - 13:15, jídelna ÚPT)				<u>45min</u>
Blok #3 Přednášky (13:15 -14:15, přednáškový sál ÚPT)				60min
<u>6.</u>	Oto Brzobohatý (ÚPT AV Brno)	Optical cooling and levitation of nanoparticles in non-linear potentials	30min	13:15-13:45
<u>7.</u>	Ondřej Číp (ÚPT AV Brno)	Cold ions for optical clocks + European fibre network for time and frequency dissemination	30min	13:45-14:15
Blok #4 Exkurze (cca. 14:15 - ..., ISI Optics Laboratories)				
Blok #5 "Second Reading" (cca. do 17:00, zasedací místnost ALISI)				
Farewell (cca. 17:00)				