

Program of the School for young scientists
Interaction between Radiation and Quantum Matter (IRQ2018)

Time	Kind of event	Lecturer/ Speaker	Title/ Comments
Day 1: 26-07 Thursday			
9.15-9.45	Registration		
9:45-10:00	Introduction to school	Teunis Klapwijk	Instructions for groups Idea of the school
10:00-10:40	Lecture a1	Oleg Astafiev	Quantum optics on superconducting quantum systems
10:45-11:25	Lecture a2		
11.25-11.45	Coffee break		
11.45-12.25	Lecture a3	Stanislav Straupe	Quantum computing with neutral atoms in optical microtraps
12.30-13.10	Lecture a4		
13.10-14.10	Lunch		
14.10-15.30	Preparation discussion		Time for discussions on research papers
15.30-16.10	Lecture a5	Denis Vodolazov	The present understanding of photon-detection by superconductors
16.15-16.55	Seminar on papers	Group A (Papers a)	
Day 2: 27-07 Friday			
09:40-10:40	Lecture b1	Denis Bandurin	Recent Advances in Graphene and 2D Materials
10.40-10.55	Coffee break		
10.55-11.55	Lecture b2	Sergey Tarasenko	Edge states in topological insulators
11.55-12.10	Coffee break		Group photo
12.10-13.10	Lecture b3	Kirill Nagaev	Electron-electron scattering and conductance of clean low-dimensional systems
13.10-14.10	Lunch		
14.10-15.30	Preparation discussion		Time for discussions on research papers
15.30-16.10	Lecture b4	Valentin Kachorovskii	Nanomechanics of graphene
16.15-16.55	Seminar on papers	Group B (Papers b)	
Day 3: 28-11 Saturday			
10:00-10:40	Lecture c1	Teunis Klapwijk	New interest in electrodynamics of strongly disordered superconductors
10:45-11:25	Lecture c2		
11.25-11.45	Coffee break		
11.45-12.25	Lecture c3	Dmitri Averin	Reversing the Landauer's erasure: information and entropy in mesoscopic thermodynamics
12.30-13.10	Lecture c4		

13.10-14.10	Lunch		
14.10-15.30	Preparation discussion		Time for discussions on research papers
15.30-16.10	Lecture b5	Prokhor Alekshev	Multimode diagnostics of nanostructures by scanning probe microscopy
16.15-16.55	Seminar on papers	Group C (Papers c)	
17.00-17.20	School closure		Delivery of participant certificates