

Nonlinear Photonics

International Summer School

August 21-24, 2018, Novosibirsk*

PROGRAM

	Tue, 21/08/2018	Wed, 22/08/2018	Thu, 23/08/2018	Fri, 24/08/2018
09:00-10:00	Registration, Welcome coffee	L5	L11	L17
10:00-11:00		L6	L12	L18
11:00-11:30	Opening	Coffee break	Coffee break	Coffee break
11:30-12:30	Lecture1 (L1)	L7	L13	L19
12:30-13:00	Lunch	Lunch	Lunch	Lunch
13:00-14:00				
14:00-15:00	L2	L8	L14	L20
15:00-16:00	L3	L9	L15	Closing
16:00-16:30	Coffee break	Coffee break	Coffee break	Coffee break
16:30-17:30	L4	L10	L16	
17:30-18:00	Welcome Reception	Poster session	Excursions	
18:00-19:00				

*Novosibirsk State University, 1 Pirogova street (main building), room 212

Tuesday, August 21

- 09:00 - 11:00
Registration, Welcome coffee
- 11:00 - 11:30
Opening
- 11:30 - 12:30
Alexander Apolonskiy (*Max Planck Institute of Quantum Optics, Germany*)
Mid-infrared supercontinuum: how and what for
- 12:30 - 14:00
Lunch
- 14:00 - 15:00
Sergey Babin (*Institute of Automation and Electrometry SB RAS, Russia*)
Dissipative Raman solitons
- 15:00 - 16:00
Pavel Mamyshev (*IPG Photonics, USA*)
Methods of nonlinear fiber optics for generation of ultrashort laser pulses
- 16:00 - 16:30
Coffee break
- 16:30 - 17:30
John Harvey (*The University of Auckland, New Zealand*)
New architectures for femtosecond all-PM fibre lasers
- 18:00
Welcome reception
Restaurant “Dom Uchenyh”

Wednesday, August 22

- 09:00 - 10:00
Aleksei Zheltikov (*Lomonosov Moscow State University, Russia*)
Ultrafast nonlinear optics in the mid-infrared: a brave new world
- 10:00 - 11:00
Stefan Wabnitz (*University of Brescia, Italy*)
Nonlinear dynamics of optical frequency combs
- 11:00 - 11:30
Coffee break
- 11:30 - 12:30
Goery Genty (*Tampere University of Technology, Finland*)
Real-time ultrafast measurements - new insights into old instabilities
- 12:30 - 14:00
Lunch
- 14:00 - 15:00
Philip Russell (*Max-Planck Institute for the Science of Light, Germany*)
Nonlinear phenomena in photonic crystal and microstructured fibres
- 15:00 - 16:00
Alejandro Aceves (*Southern Methodist University, USA*)
Nonlinear photonics with a twist: understanding light propagation dynamics in emerging photonic structures
- 16:00 - 16:30
Coffee break
- 16:30 - 17:30
Gilberto Brambilla (*University of Southampton, United Kingdom*)
Nonlinear optics in sub-wavelength waveguides
- 17:30 - 19:00
Poster Session with complementary drinks

Thursday, August 23

- 09:00 - 10:00
Kestutis Staliunas (*Polytechnic University of Catalonia, Spain*)
Local Hilbert transform for the manipulation of light patterns
- 10:00 - 11:00
Antonio Picozzi (*University of Bourgogne, France*)
Introduction to optical wave turbulence
- 11:00 - 11:30
Coffee break
- 11:30 - 12:30
Pierre Suret (*University of Lille, France*)
Integrable turbulence: from ultrafast measurements in optical fiber experiments to open theoretical questions
- 12:30 - 14:00
Lunch
- 14:00 - 15:00
Alexandre Kudlinski (*University of Lille, France*)
Dark solitons, dispersive waves and their interaction in optical fibers
- 15:00 - 16:00
Stefano Trillo (*University of Ferrara, Italy*)
Dispersive Riemann problem and shock waves in optical fibers
- 16:00 - 16:30
Coffee break
- 16:30 - 17:30
Claudio Conti (*Sapienza University of Rome, Italy*)
Nonlinear waves in random media and other topics
- 17:30 - 19:00
Excursions

Friday, August 24

- 09:00 - 10:00
Vincent Couderc (*University of Limoges, France*)
Nonlinear propagation in multimode fibers: application to second-harmonic generation, supercontinuum generation, mode-locked laser and nonlinear imaging
- 10:00 - 11:00
Rene-Jean Essiambre (*Nokia Bell Labs, USA*)
Generalized Manakov equations in N dimensions ($N > 2$) for multicore and multimode fibers
- 11:00 - 11:30
Coffee break
- 11:30 - 12:30
Yuri Kivshar (*The Australian National University, Australia*)
Meta-optics and nonlinear nanophotonics
- 12:30 - 14:00
Lunch
- 14:00 - 15:00
Andrey Sukhorukov (*Australian National University, Australia*)
Synthetic spectral lattices in optical fibers
- 15:00 - 16:00
Closing
- 16:00 - 16:30
Coffee break