

## Program 29.06.2026

08:00 - 09:00 REGISTRATION & OPENING

### Information processing and nonlinear fiber propagation

09:00 - 09:40 **Lina Jaurige**  
Information processing of nonlinear optical fibers

09:40 - 10:20 **Andrei V. Ermolaev**  
From photonic machine learning to data-driven discoveries in nonlinear fiber optics

10:20 - 11:00 **Goëry Genty**  
Tailored and spontaneous generation of OAM beams in multimode optical fibers via nonlinear propagation

11:00 - 11:30 COFFEE BREAK

### Higher-order dispersion systems

11:30 - 12:10 **Martijn de Sterke**  
Fractional Laplacians in a mode-locked fibre laser

12:10 - 12:50 **Antoine Runge**  
High-order dispersion cavity solitons in passive Kerr resonators

12:50 - 14:00 LUNCH BREAK

### Bifurcations and self-organization in optical cavities

14:00 - 14:40 **Svetlana Gurevich**  
Multipulse dynamics in the Haus master equation for active mode-locking

14:40 - 15:20 **Daria Dolinina**  
Soliton interaction and bound state formation in coupled Kerr resonators

15:20 - 15:50 COFFEE BREAK

### VECSELS

15:50 - 16:30 **Kathy Lüdge**  
Third order dispersion effects in V-shaped passively mode locked VECSELS

16:30 - 17:10 **Massimo Giudici**  
Degenerate laser cavities: A tool for exploring spatio-temporal nonlinear dynamics and their applications

## Program 30.06.2026

### Mode-locking

09:00 - 09:40	<b>Sergei Turitsyn</b> Light shift register mechanism of bi-chromatic pulse generation
09:40 - 10:20	<b>Giovanna Tissoni</b> Dynamic cavity solitons and extreme events in spatially extended semiconductor lasers
10:20 - 11:00	<b>Günter Steinmeyer</b> Optical thermodynamics and Townes soliton formation in dissipative optical multi-mode fibers
11:00 - 11:30	COFFEE BREAK

### Frequency-combs

11:30 - 12:10	<b>Arnaud Mussot</b> Broadband frequency comb generation in high-quality-factor fiber Fabry-Pérot resonators
12:10 - 12:50	<b>Neil Broderick</b> Phase resetting in the Yamada model of a Q-switched laser
12:50 - 14:00	LUNCH BREAK

### Broad area lasers

14:00 - 14:40	<b>Cristina Masoller</b> Quantifying beam filamentation in broad area lasers using information-theory measures
14:40 - 15:20	<b>Margarida Facao</b> Analysis of nonlinear stationary modes in medium-area edge-emitting semiconductor lasers
15:20 - 15:50	<b>Uwe Bandelow</b> Self-consistent thermal-opto-electronic model for the dynamics in high-power semiconductor lasers
15:50 - 16:20	COFFEE BREAK

### Numerical methods

16:20 - 17:00	<b>Fabio Biancalana</b> The Quantum Split-Step Fourier Algorithm
17:00 - 17:30	<b>Shalva Amiranashvili</b> Numerical stability of split-step algorithms
18:00 - 21:00	CONFERENCE DINNER

## Program 01.07.2026

### Interaction with quantum states

09:00 - 09:40	<b>Maria Richter</b> Universality of ultrafast strong-field-induced excited-states lasing in atomic gases
09:40 - 10:10	<b>Albert Gallemí</b> Collisions of self-bound quantum droplets
10:10 - 10:40	COFFEE BREAK

### Time crystals

10:40 - 11:20	<b>Julien Javaloyes</b> Time crystals and winnerless competition in active mode-locked laser system
11:20 - 11:50	<b>Ruiling Weng</b> Experimental observation of discrete time crystals and domain-wall dynamics in active mode-locked laser cavities
11:50 - 12:00	CLOSING