

## MONDAY 5TH JUNE

18:00-18:40 ELI ATTOSECOND: INFORMATIVE LECTURE — Csaba Janáky  
**ELI-ALPS Research Institute: Research Technology and Scientific Mission**  
*Discussion leader: name*

## TUESDAY 6TH JUNE

9:00-9:45 REGISTRATION

9:45-10:00 OPENING

Opening by Gábor Szabó, Rector of the University of Szeged

10:00 -11:00 PLENARY 1 — Nigel Goldenfeld

**Statistical Mechanics of the Phase Transition to Turbulence: Zonal Flows, Ecological Collapse and Extreme Value Statistics**

*Discussion leader: name*

11:00-11:30 COFFEE BREAK

11:30-12:30 PLENARY 2 — Namiko Mitarai

**Invasion and Extinction Dynamics in Competitive Environments**

*Discussion leader: name*

12:30-14:00 LUNCH BREAK AND POSTER SESSION

14:00-15:00 PLENARY 3 — Odo Diekmann

**Renewal Equations in Population Biology: A Dynamical Systems Perspective**

*Discussion leader: name*

15:15-17:20 PARALLEL SESSIONS

**MS2** CHEMOBRIONICS: FLUID DYNAMICS AND COMPLEXITY (Room 107)

*Organizers: Silvana Cardoso, Julyan Cartwright, Gábor Schusztzer*

15:15-15:40 Silvana Cardoso

**Self-mixing in the Earth's atmosphere, oceans, and subsurface**

15:40-16:05 Julyan Cartwright

**The spark of life: The physics of how the Earth went from geology and chemistry to biology**

16:05-16:30 Gábor Schusztzer

**Comparison of flow-controlled calcium and barium carbonate precipitation patterns for underground carbon dioxide sequestration**

16:30-16:55 Oliver Steinbock

**Chemobionics Meets Microfluidics: Control of Growth Dynamics and Prebiotic Processes**

16:55-17:20 Nicola Mingotti

**Experimental investigation of turbulent plumes with a precipitation reaction**

**MS4a** COMPLEX PATTERNS ON NETWORKS (Room 211)

*Organizers: Jan F. Totz, Erik Martens, Ralph G. Andrzejak*

15:15-15:40 Eckehard Schöll

**Chimeras in Networks with Complex Topologies**

15:40-16:05 Anna Zakharova  
**Time-delayed feedback control of noise-induced chimera states**

16:05-16:30 Ralph G. Andrzejak  
**Driver response couplings between networks in chimera states**

16:30-16:55 Giulia Ruzzene  
**Control of chimera states via pacemakers**

16:55-17:20 Bogdan Penkovsky  
**Chimera States in Nonlinear Systems with Delayed Feedback**

**MS8a** DYNAMICS OF REACTION SYSTEMS IN CHEMISTRY, PHYSICAL CHEMISTRY AND BIO-CHEMISTRY (Room 215)

*Organizers: Liljana Kolar-Anić, Željko Čupić*

15:15-15:40 Liljana Kolar-Anić  
**Modelling of a complex biochemical system for various applications**

15:40-16:05 Željko Čupić  
**Influence of circadian function on the dynamical states and bifurcation diagrams of the hypothalamic pituitary-adrenal axis**

16:05-16:30 Vladimir M. Marković  
**Modeling hypothalamic-pituitary-adrenal axis dynamics under various forms of externally and internally induced cholesterol perturbations**

16:30-16:55 Katarina Novakovic  
**From phenyl acetylene to mono- and di-alkyne-terminated poly(ethylene glycol) as substrates in oscillatory carbonylation reactions**

16:55-17:20 Marek Orlik  
**Pattern formation in the H<sub>2</sub>O<sub>2</sub>-based chemical oscillators, caused by inhomogeneous temperature field**

**MS12a** SNAPSHOT AND PULLBACK ATTRACTORS, A FRAMEWORK FOR UNDERSTANDING NONAUTONOMOUS DISSIPATIVE DYNAMICS (Room 216)

*Organizers: Michael Ghil, Tamás Tél*

15:15-15:40 Michael Ghil  
**A Mathematical Theory of Climate Sensitivity and What We Learn About It From Pullback Attractors**

15:40-16:05 Miklos Vincze  
**Temperature fluctuations in a changing climate: an ensemble-based experimental approach**

16:05-16:30 Ulrike Feudel  
**Death and revival of chaos**

16:30-16:55 Mátyás Herein  
**The theory of parallel climate realizations as a new framework for teleconnection analysis**

16:55-17:20 Mickael Chekroun  
**Crisis of pullback strange attractors in a delay differential model of El Nino-Southern Oscillation**

17:40-19:45 PARALLEL SESSIONS

**MS4b** COMPLEX PATTERNS ON NETWORKS (Room 211)*Organizers: Jan F. Totz, Erik Martens, Ralph G. Andrzejak*

17:40-18:05 Shashi Thutupalli

**Patterns on a starvation network: Aggregation and fruiting body formation in soil bacteria**

18:05-18:30 Justus A. Kromer

**Noise-induced patterns in networks of adaptive excitable elements**

18:30-18:55 D. R. Brumley

**Long-range interactions, wobbles, and phase defects in biological oscillator networks**

18:55-19:20 Iryna Omelchenko

**Tweezer control for chimera states**

19:20-19:45 Chittaranjan Hens

**Spatio-temporal propagation of perturbation in complex networks****MS12b** SNAPSHOT AND PULLBACK ATTRACTORS, A FRAMEWORK FOR UNDERSTANDING NONAUTONOMOUS DISSIPATIVE DYNAMICS (Room 216)*Organizers: Michael Ghil, Tamás Tél*

17:40-18:05 Valerio Lucarini

**Predicting Climate Change Using Response Theory: Global Averages and Spatial Patterns**

18:05-18:30 Tamás Bódai

**Linear response theory applied to geoengineering**

18:30-18:55 Stefano Pierini

**Pullback attractors of a low-order ocean model subject to periodic and aperiodic forcing**

18:55-19:20 György Károlyi

**Plankton-climate interaction in climate change**

19:20-19:45 Jim Yorke

**Generalized Lorentz Equations****CT16** MATHEMATICAL ASPECTS (ROOM 107)*Discussion leader:*

17:40-18:00 Ilija Kashchenko

**Asymptotic of solution of nonlinear equation with two large delays**

18:00-18:20 Michael McCullough

**Ordinal network based time series analysis using geodesic measures**

18:20-18:40 Rene O. Medrano-T

**Cubic homoclinic tangency and complex structures of periodicity in planar parameter space**

18:40-19:00 Ulrich Parlitz

**Exploiting delay coordinates for data assimilation and parameter estimation**

19:00-19:20 Maxim V. Shamolin

**Variety of integrable cases in dynamics of nonconservative variable dissipation systems**

19:20-19:40 Filippo Terragni

**Collocated POD and simulation of nonlinear dynamics**

19:40-20:00 Gergely Röst

**Population dynamics of epidemic and endemic states of drug-resistance emergence in infectious diseases with delayed treatment initiation****CT17 NETWORKS (ROOM 215)***Discussion leader:*

17:40-18:00 name

**title**

18:00-18:20 Vladimir Klinshov

**Bistability, rate oscillations and slow rate fluctuations in a neural network with noise and coupling delays**

18:20-18:40 František Muzika

**Symmetry breaking in a ring of coupled cells with glycolytic oscillatory reaction**

18:40-19:00 Viktor Novičenko

**Control of synchronization in complex oscillator networks via time-delayed feedback**

19:00-19:20 Márton Pósfai

**Fluctuations and stability of emergent hierarchies in social systems**

19:20-19:40 Alberto Saa

**Network asymmetries favor synchronization****WEDNESDAY 7TH JUNE****8:45-10:50 PARALLEL SESSIONS****MS1a CHEMO-HYDRODYNAMICS (Room 107)***Organizer: Marcello A. Budroni*

8:45- 9:10 Fabian Brau

**Flow control of  $A + B \rightarrow C$  fronts by radial injection**

9:10- 9:35 Uwe Tiele

**Sliding drops – from bifurcations for single drops to ensemble dynamics**

9:35-10:00 Kerstin Eckert

**Relaxation Oscillations of solutal Marangoni convection at droplets and chains of droplet**

10:00-10:25 Reda Tiani

**Effects of Marangoni flows on  $A + B \rightarrow C$  reaction-diffusion fronts**

10:25-10:50 Kay Huang

**Pattern formation in wet granular matter****MS7a DYNAMICAL NETWORK CONTROL AND APPLICATIONS TO POWER GRIDS (Room 216)***Organizers: Simona Olmi, Eckehard Schöll, Anna Zakharova*

8:45- 9:10 Jobst Heitzig

**A State Space Topology of Sustainable Management and its Implications for Power Grids**

9:10- 9:35 Oliver Kamps

**Power Grids and Turbulence – On the stability and quality of power grids subjected to intermittent feed-in**

9:35-10:00 Mario Mureddu  
**A Statistical Approach for Resilience Analysis of ESS Deployment in Power Systems with high RES penetration**

10:00-10:25 Dirk Witthaut  
**Network robustness and the impact of transmission line failures**

10:25-10:50 Pedro G. Lind  
**From conventional to renewable power: Insights on the role of grid heterogeneities and long-range connectivity**

**MS10** NONLINEAR DELAY EQUATIONS (Room 211)

*Organizer: Gergely Röst*

8:45- 9:10 Tibor Krisztin  
**Smoothness problems for differential equations with state-dependent delay**

9:10- 9:35 Alfonso Ruiz-Herrera  
**Geometric methods for global attraction in systems of delay differential equations**

9:35-10:00 Stefan Ruschel  
**A discrete delay epidemic model for isolation**

10:00-10:25 Ábel Garab  
**Morse decomposition for scalar delay difference equations**

10:25-10:50 Mónika Polner  
**A space-time finite element method for neural field equations with transmission delays**

**MS11a** SELF-ORGANIZATION, SELF-PROPULSION, COMPARTMENTALIZATION AND THEIR APPLICATIONS (Room 215)

*Organizer: István L. Lagzi*

8:45- 9:10 Satoshi Nakata  
**Characteristic motion of a self-organized object based on nonlinearity**

9:10- 9:35 Ádám Kun  
**Compartmentalization as a prerequisite for the origin of life**

9:35-10:00 Suematsu J. Nobuhiko  
**Nonlinear behavior of a self-propelled droplet coupling with the Belousov-Zhabotinsky reaction**

10:00-10:25 Taisuke Banno  
**Phototactic behavior of micrometer-sized oil droplets in surfactant solution**

10:25-10:50 Veronique Pimienta  
**Patterns formation in a pulsating drop**

11:00-11:30 COFFEE BREAK

11:30-12:30 PLENARY 4 — Simona Olmi

**The Influence of Topology and Heterogeneity in Shaping the Dynamics of Neural Networks**  
*Discussion leader: name*

12:30-14:00 LUNCH BREAK AND POSTER SESSION

14:00-15:00 PLENARY 5 — Tamás Vicsek

**Collective Motion: from Bacteria to Drones**  
*Discussion leader: name*

## 15:15-17:20 PARALLEL SESSIONS

**MS5a** COMPLICATED DYNAMICS AND CHAOS IN CELL SYSTEMS (Room 211)*Organizer: Marek Kimmel*

15:15-15:40 Albert Goldbeter

**Coupling the mammalian cell cycle to the circadian clock: From entrainment to complex oscillations and chaos**

15:40-16:05 Andrzej Swierniak

**Games with resources in modeling of cancer cell interactions**

16:05-16:30 Franck Delaunay

**Experimental and theoretical analysis of the coupling between the mammalian cell cycle and circadian clock oscillators**

16:30-16:55 François Fages

**Model-based investigation of the circadian clock and cell cycle coupling in mouse embryonic fibroblasts: Prediction of RevErb- $\alpha$  up-regulation during mitosis**

16:55-17:20 Marzena Dołbniak

**Mathematical modelling reveals unexpected inheritance and variability pattern of cell cycle parameters in mammalian cells****MS6** COVARIANT LYAPUNOV VECTORS AND APPLICATIONS (Room 107)*Organizers: Juan M. Lopéz and Valerio Lucarini*

15:15-15:40 Valerio Lucarini

**Statistical and dynamical properties of covariant Lyapunov vectors in a coupled atmosphere-ocean model**

15:40-16:05 Sebastian Schubert

**Characterising blocking-like events in a quasi-geostrophic model with covariant Lyapunov vectors**

16:05-16:30 Nahal Sarafi

**Critical transitions and perturbation growth directions**

16:30-16:55 Marcus W. Beims

**Alignment of Lyapunov vectors: A quantitative criterion to predict large events?**

16:55-17:20 Juan M. Lopéz

**Fluctuations of Lyapunov exponents in extended chaotic systems****MS7b** DYNAMICAL NETWORK CONTROL AND APPLICATIONS TO POWER GRIDS (Room 216)*Organizers: Simona Olmi, Eckehard Schöll, Anna Zakharova*

15:15-15:40 Giovanni Filatrella

**Josephson junctions as a prototype for synchronization of nonlinear oscillators: from Huygens clocks to the utility power grid**15:40-16:05 Benjamin Schäfer **Dynamics of decentrally controlled power grids**

16:05-16:30 Rosaria Volpe

**A mathematical model for energy distribution in urban areas**

16:30-16:55 Jan Philipp Pade

**Towards the impact of structural perturbations in power-grids: the role of algebraic constraints**

16:55-17:20 Yuri Maistrenko

**Solitary states in the Kuramoto model with inertia****MS11b** SELF-ORGANIZATION, SELF-PROPULSION, COMPARTMENTALIZATION AND THEIR APPLICATIONS (Room 215)*Organizer: István L. Lagzi*

15:15-15:40 Federico Rossi

**Giant vesicles as host reactors for nonlinear chemical reactions**

15:40-16:05 Anette Taylor

**Directing the motion of aspirin tablets on curved air-water interfaces**

16:05-16:30 Takashi Isoshima

**Wavefront propagation in two-dimensional optical bistable device for maze exploration**

16:30-16:55 István Lagzi

**Maze solving using self-propelled and passive particles at the liquid-air interface**

16:55-17:20 Jitka Čejková

**Artificial chemotaxis of decanol droplet groups**

17:20-17:40 COFFEE BREAK

17:40-19:20 PARALLEL SESSIONS

**MS5b** COMPLICATED DYNAMICS AND CHAOS IN CELL SYSTEMS (Room 211)*Organizer: Marek Kimmel*

17:40-18:05 Milan Stehlik

**Extracting fractal and extreme aspects from series of random dynamical systems**

18:05-18:30 Krzysztof Puszynski

**Analysis of a piece-wise linear model of the p53 regulatory module**

18:30-18:55 Marek Kimmel

**Thick distribution tails and super-exponential growth in models of cancer secondary tumors****CT18** APPLICATIONS (Room 215)*Discussion leader:*

17:40-18:00 Sándor Bulcsú

**The role of attractors in the closed-loop scheme of robotic locomotion**

18:00-18:20 Ferenc Hegedűs

**Topological description of periodic structures of an asymmetric nonlinear oscillator**

18:20-18:40 Masanobu Inubushi

**Reservoir Computing Beyond Memory-Nonlinearity Trade-off**

18:40-19:00 Ernesto Pereda

**Combining spectral power and functional connectivity optimizes classification accuracy of epileptic patients from resting state MEG data**

19:00-19:20 Hiromichi Suetani

**Lyapunov analysis of chaotic itinerancy in FORCE-based neural network learning****CT19** CHAOTIC SYSTEMS (Room 216)*Discussion leader:*

17:40-18:00 Itzhack Dana

**Quantum dynamical and topological manifestations of superweak chaos**

18:00-18:20 Ezequiel del Rio

**Noise effect on the new theory of intermittency**

18:20-18:40 Hildegard Meyer-Ortmanns

**Physical aging and emerging long-period orbits in deterministic classical oscillators**

18:40-19:00 Jordi Tiana-Alsina

**Optimal entrainment of the spikes emitted by a semiconductor laser with feedback**

19:00-19:20 Fumiyoshi Kuwashima

**High efficient THz wave detections using metal V-grooved waveguide(MVG) and generations using laser chaos**

#### CT20 ENVIRONMENTAL SYSTEMS (Room 107)

*Discussion leader:*

17:40-18:00 Tímea Haszpra

**The effect of climate change on the topological entropy of atmospheric pollutant clouds**

18:00-18:20 Evgeniy Khain

**Noise-induced rare events in granular media: a volcanic-like explosion**

18:20-18:40 Tamás Kovács

**Recurrence time analysis in exoplanetary dynamics**

18:40-19:00 Constantinos I. Siettos

**A biophysical network model for antisaccade eye movements**

19:00-19:20 Cristina G. B. Martínez

**The interplay of synchronization in epilepsy and sleep: A data-driven approach**

#### 19:30-20:30 ROUND TABLE DISCUSSION

Ulrike Feudel, Michael Ghil, Albert Goldbeter, Marek Kimmel, Ken Showalter, Jim Yorke

**What is the future of dynamics?**

*Discussion leader: Eckehard Schöll*

### THURSDAY 8TH JUNE

#### 8:45-10:50 PARALLEL SESSIONS

##### MS1b CHEMO-HYDRODYNAMICS (Room 107)

*Organizer: Marcello A. Budroni*

8:45- 9:10 Pier Luigi Gentili

**Hydrodynamic photochemical oscillators useful for chaos computing**

9:10-10:35 Izabella Benczik

**Transient chaos in chemically leaked open flows**

9:35-10:00 Dario M. Escala

**Hydrodynamic instabilities driven by complex chemical reactions**

10:00-10:25 Marcus J. B. Hauser

**Laminar mixing in tubular networks of plasmodial slime moulds**

10:25-10:50 Yves Mheust

**The interplay between solute mixing and chemical reaction in 2D porous media**



**MS3 COMPLEX NETWORKS: DELAYS AND COLLECTIVE DYNAMICS (Room 215)***Organizers: Yuliya Kyrychko and Konstantin Blyuss*

8:45- 9:10 Eckehard Schöll

**Control of chimeras by time delay in dynamical networks**

9:10- 9:35 Jan Sieber

**Local bifurcations in delay equations with state-dependent delays**

9:35-10:00 Arindam Saha

**Generation and propagation of delay-induced extreme events in spatially extended systems**

10:00-10:25 Oleh Omel'chenko

**Bifurcations mediating appearance of chimera states**

10:25-10:50 Konstantin Blyuss

**Time-delayed model of RNA interference****MS14a SYNCHRONIZATION PATTERNS IN NETWORKS: THEORY AND APPLICATIONS (Room 216)***Organizers: István Z. Kiss and Oleh Omel'chenko*

8:45- 9:10 Ralf Toenjes

**The effects of noise on an oscillator ensemble coupled in a star-graph configuration**

9:10- 9:35 Hiroshi Kori

**Optimal network motif for synchronization in coupled noisy oscillators**

9:35-10:00 Kenneth Showalter

**Echo behavior in large populations of chemical oscillators**

10:00-10:25 Oleksandr V. Popovych

**Pulsatile delayed feedback for closed-loop deep brain stimulation**

10:25-10:50 Inmaculada Leyva

**Inter-layer relay synchronization in multiplex networks****MS15 : THZ WAVE AND LASER DYNAMICS (Room 211)***Organizers: Fumiyoshi Kuwashima and Takashi Isoshima*

8:45- 9:10 Hiroaki Minamide

**Efficient terahertz-wave generation and detection based on dynamic nonlinear effect**

9:10- 9:35 Masahiko Tani

**Terahertz time-domain coherent Raman spectroscopy using picosecond frequency-chirped optical pulses**

9:35-10:00 Alexandre Locquet

**Time-resolved terahertz spectroscopy and laser dynamics**

10:00-10:25 Satoshi Sunada

**Mode competition dynamics in micro cavity lasers**

10:25-10:50 Satoshi Ebisawa

**Chaotic oscillation of laser diode with optical injection and pseudorandom signal**

11:00-11:30 COFFEE BREAK

11:30-12:30 PLENARY 6 — Antonio Politi

**Quantifying the Dynamical Complexity of a Time-series from Ordinal Patterns***Discussion leader: name*

12:30-14:00 LUNCH BREAK AND POSTER SESSION

14:00-15:00 PLENARY 7 — Oliver Steinbock

**Vortex dynamics: a journey through chemistry and cardiology**

*Discussion leader: name*

15:00-19:00 SIGHTSEEING – EXCURSION

19:30-21:30 CONFERENCE DINNER

## FRIDAY 9TH JUNE

8:45-10:50 PARALLEL SESSIONS

**MS8b** DYNAMICS OF REACTION SYSTEMS IN CHEMISTRY, PHYSICAL CHEMISTRY AND BIO-CHEMISTRY (Room 215)

*Organizers: Liljana Kolar-Anić, Željko Čupić*

8:45- 9:10 Stevan Maćešić

**Method for determination of mechanisms responsible for complex dynamics in the model of Bray-Liebhafsky reaction**

9:10- 9:35 Kristina Stevanović

**The application of stopped-flow technique for investigation of reaction dynamics of iodine oxidation with hydrogen peroxide**

9:35-10:00 Attila K. Horváth

**Robust and detailed kinetic model of the chlorite-thiosulfate reaction**

10:00-10:25 Cédric Barroo

**Emergence of chemical oscillations from nanosized target patterns**

10:25-10:50 Teresa Kowalska

**Assessment of dynamics of the oscillating reactions with chiral compounds**

**MS9** FLUID DYNAMICS SIMULATION TOOLS THROUGH THE EYE OF THE PHYSICIST (Room 107)

*Organizer: Izabella Benczik*

8:45- 9:10 Mátyás Herein

**A user friendly climate model: The planet simulator**

9:10- 9:35 Gábor Drótos

**The dynamics and its parameter dependence of radiative-convective equilibrium in ECHAM6.3**

9:35-10:00 Yxiang Liao

**ANSYS-CFX simulations – Multiple size group (MUSIG) model for bubble coalescence and break-up in multiphase flows**

10:00-10:25 Ganapati Sahoo

**Pseudo-spectral simulations of turbulent flows**

10:25-10:50 Markus Knodel

**Dynamics of hepatitis C virus replication in single liver cells: Full 3D (surface) PDE modeling with UG4**

**MS13** STABILITY IN NON-AUTONOMOUS COMPLEX DYNAMICS (Room 211)

*Organizer: Aneta Stefanovska*

8:45- 9:10 Spase Petkoski

**Time-varying Kuramoto model**

9:10- 9:35 Maxime Lucas

**Nonautonomous perturbation stabilises dynamics of complex system**

9:35-10:00 Michael Ghil

**Non-autonomous delay-differential models of the El Niño–Southern Oscillation and their pullback attractors**

10:00-10:25 Paul Ritchie

**Early-warning indicators for rate-induced tipping**

10:25-10:50 Gemma Lancaster

**Dynamics of cellular energy metabolism**

**MS14b** SYNCHRONIZATION PATTERNS IN NETWORKS: THEORY AND APPLICATIONS (Room 216)

*Organizers: István Z. Kiss and Oleh Omel'chenko*

8:45- 9:10 Oleh Omelchenko

**Noninvasive model reconstruction from a partially synchronized state**

9:10- 9:35 Edgar Knobloch

**Chimera states in nonlocally coupled oscillators**

9:35-10:00 Jan F. Tetz

**Experimental observation of spiral wave chimeras in coupled chemical oscillators**

10:00-10:25 Viktor Horváth

**Pulse-coupled chemical oscillators: experiments, models, theory**

10:25-10:50 István Z. Kiss

**Partially synchronized states in small networks of electrochemical oscillators: Effect of heterogeneities and network topology**

11:00-11:30 COFFEE BREAK

11:30-12:30 PLENARY 8 — Tomaz Prosen

**Quantum Chaos in Clean Many-Body Systems**

*Discussion leader: name*

12:30-13:30 PLENARY 9 — Joachim Peinke

**Wind Energy with Regard to Nonlinear and Stochastic Dynamics**

*Discussion leader: name*

13:30-13:40 CLOSING

	June 5 Monday	June 6 Tuesday	June 7 Wednesday	June 8 Thursday	June 9 Friday
8:45–10:00	ARRIVAL	Registration	Parallel sessions 1a 7a	Parallel sessions 1b 3	Parallel sessions 8b 9
10.00–11:00		<b><i>Nigel Goldenfeld</i></b> Plenary talk	10 11a	14a 15	13 14b
11:00–11:30		Coffee break	Coffee break	Coffee break	Coffee break
11:30–12:30		<b><i>Namiko Mitarai</i></b> Plenary talk	<b><i>Simona Olmi</i></b> Plenary talk	<b><i>Antonio Politi</i></b> Plenary talk	<b><i>Tomaz Prosen</i></b> Plenary talk
12:30–14:00		Lunch break Poster session	Lunch break Poster session	Lunch break Poster session	<b><i>Joachim Peinke</i></b> Plenary talk
					Closing
14:00–15:00		<b><i>Odo Diekmann</i></b> Plenary talk	<b><i>Tamas Vicsek</i></b> Plenary talk	<b><i>Oliver Steinbock</i></b> Plenary talk	DEPARTURE
15:15–17:20		Parallel sessions 2 8a 4a 12a	Parallel sessions 5a 6 7b 11b	Sightseeing Excursion	
17:20–17:45	Coffee break	Coffee break			
17:45–19:50	ELI attosecond: Informative Lecture	Parallel sessions 4b 12b	Parallel sessions 5b 18 19 20		
	Welcome drink	16 17	Round table discussion		
			Conference dinner		

Conference venue:

Albert Szent–Gyorgyi Educational Center



Bolyai Institute

