

Time tables

Wednesday (July 1)

09:00–09:15	<i>Opening ceremony</i>		
09:20–10:10 10:20–11:10	Diekmann Nussbaum		
11:40–12:10 12:15–12:45	Inaba Takeuchi	Kovács Räsvan	
15:00–15:30 15:35–16:05	Appleby Ruiz-Herrera	Nakata Di Loreto	
16:30–16:50 16:50–17:10 17:10–17:30 17:30–17:50 17:50–18:10 18:10–18:30	Nagy Barbarossa Nah Vizi Dénes	Damak Péics — Mesquita Reinfelds Radin	Mohamady Şahiner Cerneá Stehlík Csizmadia
19:00–	<i>Welcome reception</i>		

Thursday (July 2)

09:00–09:50 10:00–10:50	Mallet-Paret Fiedler		
11:20–11:50 11:55–12:25 12:30–13:00	Pap Humphries Atay	Graef Faragó Diblík	
15:00–15:30 15:35–16:05 16:10–16:40	Pituk Győri Vas	Domoshnitsky Došlá Federson	
17:05–17:25 17:25–17:45 17:45–18:05	Balázs Kiss Svoboda	Slavík Szymańska-Dębowska Bognár	Kıvılcım — Akhmet
18:30–	<i>Sightseeing tour</i>		

Time tables

Friday (July 3)

09:00–09:50 10:00–10:50	Wu Walther		
11:20–11:50 11:55–12:25 12:30–13:00	Lani-Wayda Caraballo Hupkes	Mochizuki Muroya Nakaoka	
15:00–15:30 15:35–16:05	Verduyn Lunel Röst	Simon, L. Došlý	
16:30–16:50 16:50–17:10 17:10–17:30 17:30–17:50 17:50–18:10	Han Russ Chekroun Patterson Besenyei	Polner Mincsovics Csomós Eremin Gamliel	Sergejeva Oinarov Liška Ramazanova —
18:30–	<i>Conference dinner</i>		

Saturday (July 4)

09:00–09:50	Pötzsche		
10:00–10:30 10:35–11:05	Szczelina Hartung	Enatsu Simon, P.	
11:25–11:55 12:00–12:30	Obaya Rezounenko	Yanchuk Kuniya	
12:35–12:55 12:55–13:15 13:15–13:35	Boldog Nishiguchi Karsai	— Ospanov —	Atslega Szijártó Kashkynbayev
13:35–	<i>Closing remarks</i>		

DETAILED PROGRAM

Wednesday (July 1)

Morning

Plenary section

Chair: Tibor Krisztin

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- 09:00–09:15 **Opening ceremony**
09:20–10:10 **Diekmann, Odo:** Delay equations revisited
10:20–11:10 **Nussbaum, Roger:** Analyticity and nonanalyticity for solutions of “analytic” differential-delay equations

Coffee break

Invited section A

Chair: Odo Diekmann

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- 11:40–12:10 **Inaba, Hisashi:** Revisiting the Kermack and McKendrick endemic model
12:15–12:45 **Takeuchi, Yasuhiro:** Stability of intracellular delay, immune activation delay and nonlinear incidence on viral dynamics

Invited section B

Chair: Fatihcan Atay

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- 11:40–12:10 **Kovács, Mihály:** Higher order Grünwald approximations of fractional derivatives and fractional powers of operators
12:15–12:45 **Răsvan, Vladimir:** On functional differential equations associated to controlled structures with propagation

Afternoon

Invited section A

Chair: John Graef

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- 15:00–15:30 **Appleby, John:** Preservation of asymptotic behaviour when discretising highly nonlinear stochastic differential equations
15:35–16:05 **Ruiz-Herrera, Alfonso:** Global dynamics of populations with competition among immature individuals

Invited section B

Chair: Gergely Röst

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- 15:00–15:30 **Nakata, Yukihiro:** On a transcendental equation from an endemic model
15:35–16:05 **Di Loreto, Michael:** Approximation of distributed parameter systems by delay systems: a control perspective

Coffee break

Contributed section A**Chair: János Karsai**

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- 16:30–16:50 **Nagy, Noémi:** Approximate master equations for dynamical processes on graphs
- 16:50–17:10 **Barbarossa, Maria Vittoria:** Immuno-epidemiology of a population structured by immune status
- 17:10–17:30 **Nah, Kyeongah:** Malaria dynamics in seasonal environment with long incubation period in hosts
- 17:30–17:50 **Vizi, Zsolt:** Generalization of pairwise models to non-Markovian epidemics on networks
- 17:50–18:10 **Dénes, Attila:** Global stability for SIR and SIRS models via Dulac functions

Contributed section B**Chair: Michael Di Loreto**

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- 16:30–16:50 **Damak, Sérine:** Exponential stability of difference equations with distributed delay
- 16:50–17:10 **Péics, Hajnalka:** System of delay difference equations with continuous time with lag function between two known functions
- 17:10–17:30 **Cancelled**
- 17:30–17:50 **Mesquita, Jaqueline:** Periodic averaging for q -difference equations
- 17:50–18:10 **Reinfelds, Andrejs:** Integral stability for dynamic systems on time scale
- 18:10–18:30 **Radin, Michael A.:** Discrete model of population dynamics of Easter Island and extinct populations

Contributed section C**Chair: Alexander Domoshnitsky**

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- 16:30–16:50 **Mohamady, Nahed:** Boundedness of solutions of nonlinear delay differential equations
- 16:50–17:10 **Şahiner, Sinem:** Sturm comparison theorems for some elliptic type equations via Picone type inequalities
- 17:10–17:30 **Cernea, Aurelian:** On the existence of solutions for a nonconvex hyperbolic differential inclusion of third order
- 17:30–17:50 **Stehlík, Petr:** Reaction–diffusion equations on lattices and graphs
- 17:50–18:10 **Csizmadia, László:** Periodic trajectories of the linear swinging model

19:00– **Welcome reception, Atrium of the Rector’s Central Building**

Thursday (July 2)

Morning

Plenary section

Chair: Eduardo Liz

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- 09:00–09:50 **Mallet-Paret, John:** Tensor products, positive operators, and delay-differential equations
10:00–10:50 **Fiedler, Bernold:** Schoenflies spheres in Sturm attractors

Coffee break

Invited section A

Chair: Mihály Pituk

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- 11:20–11:50 **Pap, Gyula:** Asymptotic inference for a stochastic differential equation with uniformly distributed time delay
11:55–12:25 **Humphries, Tony:** Lyapunov–Razumikhin techniques for state-dependent DDEs
12:30–13:00 **Atay, Fatihcan:** On the lumpability of differential equations

Invited section B

Chair: László Simon

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- 11:20–11:50 **Graef, John:** Oscillatory behavior of a third-order neutral dynamic equation with distributed delays
11:55–12:25 **Faragó, István:** Numerical modeling of epidemic propagation
12:30–13:00 **Diblík, Josef:** Uniform exponential stability conditions for systems of linear delay differential equations

Afternoon

Invited section A

Chair: Tomás Caraballo

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- 15:00–15:30 **Pituk, Mihály:** Asymptotic results for a linear delay differential equation
15:35–16:05 **Gyóri, István:** On a logistic equation with delayed positive feedback
16:10–16:40 **Vas, Gabriella:** New configurations of periodic orbits for delay equations with positive feedback

Invited section B

Chair: Josef Diblík

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- 15:00–15:30 **Domoshnitsky, Alexander:** Stability of delay differential systems
15:35–16:05 **Došlá, Zuzana:** Asymptotic problems for fourth order differential equations
16:10–16:40 **Federson, Marcia:** Periodic solutions and bifurcation in generalized ODEs and applications

Coffee break

Contributed section A**Chair: Sjoerd Verduyn Lunel**

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- 17:05–17:25 **Balázs, István:** Periodic solutions of a differential equation with a queueing delay
- 17:25–17:45 **Kiss, Gábor:** Periodic solutions of a delayed Van der Pol oscillator
- 17:45–18:05 **Svoboda, Zdeněk:** Representation of solutions of second-order linear differential systems with constant delays

Contributed section B**Chair: Marcia Federson**

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- 17:05–17:25 **Slavík, Antonín:** Product integration and linear differential equations in Banach algebras
- 17:25–17:45 **Szymańska-Dębowska, Katarzyna:** On a nonlocal resonant boundary value problem involving p -Laplacian
- 17:45–18:05 **Bognár, Gabriella:** On the solutions to Navier–Stokes problem for some non-Newtonian cases

Contributed section C**Chair: Mihály Kovács**

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- 17:05–17:25 **Kivılcım, Ayşegül:** Chaos by neural networks: the quasi-periodic route
- 17:25–17:45 **Cancelled**
- 17:45–18:05 **Akhmet, Marat:** Functional differential equations with piecewise constant argument

18:30– **Sightseeing tour**

Friday (July 3)

Morning

Plenary section

Chair: Wolfgang Ruess

- 09:00–09:50 **Wu, Jianhong:** The Fisher–KPP equation with moving favorable and lethal habitats
- 10:00–10:50 **Walther, Hans-Otto:** State-dependent delays which yield complicated motion

Coffee break

Invited section A

Chair: Ferenc Hartung

- 11:20–11:50 **Lani-Wayda, Bernhard:** State-dependent delays which yield complicated motion, Part II.
- 11:55–12:25 **Caraballo, Tomás:** Long time behaviour of delay 2D Navier–Stokes equations
- 12:30–13:00 **Hupkes, Hermen Jan:** Travelling waves for fully discretized bistable reaction–diffusion problems

Invited section B

Chair: Yasuhiro Takeuchi

- 11:20–11:50 **Mochizuki, Atsushi:** Dynamics of complex biological systems determined/controlled by minimal subsets of molecules in regulatory networks
- 11:55–12:25 **Muroya, Yoshiaki:** Stability analysis of multi-group SIS epidemic models and related models.
- 12:30–13:00 **Nakaoka, Shinji:** Mathematical modeling and simulation of HIV infection in a lymph node network

Afternoon

Invited section A

Chair: John Appleby

- 15:00–15:30 **Verduyn Lunel, Sjoerd:** The spectral theory for periodic delay equations revisited
- 15:35–16:05 **Röst, Gergely:** Some interesting features of periodic delay differential equations

Invited section B

Chair: Zuzana Došlá

- 15:00–15:30 **Simon, László:** On a system of nonlinear partial functional differential equations
- 15:35–16:05 **Došlý, Ondřej:** Oscillation constants for a class of second-order ordinary differential equations

Coffee break

Contributed section A**Chair: Hisashi Inaba**

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- 16:30–16:50 **Han, Xiaoying:** Chemostat in varying environments
16:50–17:10 **Russ, Evamaria:** Topological decoupling and linearization of nonautonomous reaction–diffusion equations
17:10–17:30 **Chekroun, Abdennasser:** Traveling wave fronts in a coupled delayed reaction–diffusion and difference system
17:30–17:50 **Patterson, Denis:** Memory-dependent growth rates in sublinear Volterra differential equations
17:50–18:10 **Besenyi, m:** Bounds for the expected value of one-step processes

Contributed section B**Chair: Tony Humphries**

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- 16:30–16:50 **Polner, Monika:** A time-discontinuous Galerkin method for neural field models with transmission delays
16:50–17:10 **Mincsovics, Miklos Emil:** On some properties of lower triangular banded Toeplitz matrices corresponding to linear multistep methods
17:10–17:30 **Csomos, Petra:** Numerical stability for nonlinear evolution equations
17:30–17:50 **Eremin, Alexey:** Functional Continuous Runge–Kutta–Nystrom methods
17:50–18:10 **Gamliel, Dan:** Approximate solutions for delay differential equations

Contributed section C**Chair: Ondrej Dosly**

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- 16:30–16:50 **Sergejeva, Natalija:** On the Fucık type problem with nonlocal integral boundary conditions
16:50–17:10 **Oinarov, Ryskul:** Weighted inequality and some qualitative characteristics of Sturm–Liouville type equation
17:10–17:30 **Liska, Petr:** On the oscillation of third order differential equations with delay
17:30–17:50 **Ramazanov, Khanym:** Sturm type comparison theorems for the half-linear equations with damping term
17:50–18:10 **Cancelled**

18:30– **Conference dinner at the Congress Hall of the Rector’s Central Building**

Saturday (July 4)

Morning

Plenary section

Chair: István Gyóri

09:00–09:50 **Pötzsche, Christian:** The role of the dichotomy spectrum in nonautonomous bifurcations

Invited section A

Chair: Bernhard Lani-Wayda

10:00–10:30 **Szczelina, Robert:** Constructing Poincaré maps for delay differential equations using rigorous interval arithmetic

10:35–11:05 **Hartung, Ferenc:** Nonlinear variation of constants formula for differential equations with state-dependent delays

Invited section B

Chair: István Faragó

10:00–10:30 **Enatsu, Yoichi:** Loss of immunity on epidemiological models with infection age

10:35–11:05 **Simon, Péter L.:** Modelling epidemic propagation on heterogeneous networks by simple systems of differential equations

Coffee break

Invited section A

Chair: Christian Pötzsche

11:25–11:55 **Obaya, Rafael:** Continuous separation for non-autonomous FDE with finite delay

12:00–12:30 **Rezounenko, Alexander:** Local and asymptotic properties of solutions to parabolic partial differential equations with state-dependent delays

Invited section B

Chair: Péter L. Simon

11:25–11:55 **Yanchuk, Serhiy:** Delay-induced patterns in a two-dimensional lattice of coupled oscillators

12:00–12:30 **Kuniya, Toshikazu:** Lyapunov functions for a spatially diffusive SIR epidemic model

Contributed section A

Chair: Yoichi Enatsu

12:35–12:55 **Boldog, Péter:** Herd immunity caused by a toxoid vaccine – the case study of diphtheria by dynamic models

12:55–13:15 **Nishiguchi, Junya:** Asymptotic stability of constant solutions in delay differential equations with a constant delay and transcendental equations with complex coefficients

13:15–13:35 **Karsai, János:** On the competition of species for territory with overcolonization

Contributed section B**Chair: Vladimir Räsvan**

12:35–12:55 **Cancelled**12:55–13:15 **Ospanov, Kordan:** Complete second order differential operator with unbounded drift13:15–13:35 **Cancelled****Contributed section C****Chair: Robert Szczelina**

12:35–12:55 **Atslega, Svetlana:** Solutions of two-point BVP via phase-plane analysis12:55–13:15 **Szijártó, András:** Vibrating infinite string under a minimally smooth force and a general observation condition13:15–13:35 **Kashkynbayev, Ardak:** Finite-time nonautonomous bifurcation in impulsive systems

13:35– **Closing remarks**