

# SCIENTIFIC PROGRAM

## EQUADIFF 15

Conference on Differential Equations  
and Their Applications

Brno, Czech Republic, July 11–15, 2022

(version: July 13, 2022)





# Contents

<b>Scientific program in details</b>	<b>4</b>
Scientific program in details — Monday . . . . .	4
Scientific program in details — Tuesday . . . . .	10
Scientific program in details — Wednesday . . . . .	16
Scientific program in details — Thursday . . . . .	19
Scientific program in details — Friday . . . . .	25
<b>Scientific program — tables</b>	<b>27</b>
Scientific program — tables — Monday . . . . .	27
Scientific program — tables — Tuesday . . . . .	31
Scientific program — tables — Wednesday . . . . .	35
Scientific program — tables — Thursday . . . . .	37
Scientific program — tables — Friday . . . . .	41

## Scientific program in details

### MONDAY – JULY 11

9:00–9:15 **Opening Ceremony (Room 101 – aula)**

#### MONDAY – PLENARY LECTURES

**Aula** Chairman: Alessandro Fonda

9:15–10:10 **Stefan Siegmund** (Germany)

Maxwell's equations revisited - mental imagery and mathematical symbols

10:15–10:45 *Coffee break*

Chairman: Juncheng Wei

10:45–11:40 **Mária Lukáčová-Medvidová** (Germany)

Dissipative solutions for compressible fluid flows

#### MONDAY – INVITED LECTURES

**Room 102 (ODE)** Chairman: Jan Andres

11:50–12:25 **Elena Braverman** (USA)

On the connection of differential, difference, delay and dynamic equations

12:30–14:00 *Lunch*

**Room 104 (PDE)** Chairman: Vincenzo Ambrosio

11:50–12:25 **Agnieszka Świerczewska-Gwiazda** (Poland)

Onsager's conjecture for general conservation laws

12:30–14:00 *Lunch*

**Room 106 (NAA)** Chairman: Robert Nürnberg

11:50–12:25 **Dirk Praetorius** (Austria)

Adaptive FEM with quasi-optimal cost for nonlinear PDEs

12:30–14:00 *Lunch*

**MONDAY – ODE MINISYMPOSIA****Room 102** Keynote speaker: Jan Tomeček**ODE-11 Recent progress in boundary value problems for differential equations**14:00–14:25 **Jan Tomeček** (Czech Republic)

Multiple solutions of certain Dirichlet problems in billiard spaces

14:30–14:55 **Olena Atlasiuk** (Czech Republic)

Linear ordinary differential systems with generic inhomogeneous boundary conditions in Sobolev spaces

15:00–15:25 **Jan Andres** (Czech Republic)

Topological entropy and differential equations

15:30–15:55 **Milan Tvrđý** (Czech Republic)

Duality for Stieltjes integral equations

16:00–16:30 *Coffee break***Room 302a** Keynote speaker: Hideaki Matsunaga**ODE-01 Qualitative theory of delay differential and difference equations**14:00–14:25 **Junya Nishiguchi** (Japan)

Critical delay and stability for linear delay differential equations

14:30–14:55 **Kodai Fujimoto** (Japan)Singular solutions of ordinary differential equations with  $p(t)$ -Laplacian15:00–15:25 **Robert Hakl** (Czech Republic)

Periodic, permanent, and extinct solutions in population models

15:30–15:55 **Hideaki Matsunaga** (Japan)

Stability switches in linear delay differential equations

16:00–16:30 *Coffee break***Room 302b** Keynote speaker: Jelena Manojlović**ODE-08 Karamata theory of regular variation and its application to asymptotic theory of differential, difference and  $q$ -difference equations**14:00–14:25 **Jelena Manojlović** (Serbia)

Strongly monotone solutions of systems of nonlinear differential equations with rapidly varying coefficients

14:30–14:55 **Katarina Djordjević** (Serbia)Application of the Karamata theory in the study of asymptotic properties of the half-linear  $q$ -difference equation15:00–15:25 **Aleksandra B. Kapešić** (Serbia)

Decreasing solutions of cyclic systems of second-order Emden-Fowler type difference equations

15:30–15:55 **Vladimir Rasvan** (Romania)  
Critical cases in neutral functional differential equations arising from hydraulic engineering

16:00–16:30 *Coffee break*

### MONDAY – ODE CONTRIBUTED TALKS

**Room 102** Chairman: Jaqueline Godoy Mesquita

16:30–16:45 **Renato Huzak** (Belgium)  
Predator-prey slow-fast cycles and Hilbert's 16th problem

16:50–17:05 **Petr Zemánek** (Czech Republic)  
Discrete symplectic systems and eigenfunctions expansion

17:10–17:25 **Luděk Nechvátal** (Czech Republic)  
Linearized stability for fractional differential and difference equations

17:30–17:45 **Paolo Gidoni** (Czech Republic)  
A topological degree theory for rotating solutions of planar systems

19:00 *Welcome party*

**Room 302a** Chairman: Anatoli Ivanov

16:30–16:45 **Jana Burkotová** (Czech Republic)  
Bouncing solutions of generalized Lazer-Solimini equation

16:50–17:05 **Filip Ficek** (Poland)  
Stationary solutions of semilinear Schrödinger equations with trapping potentials in supercritical dimensions

17:10–17:25 **István Balázs** (Hungary)  
Global stability for price models with delay

17:30–17:45 **Jan Jekl** (Czech Republic)  
Recent results in the theory of  $p$ -critical linear even-order difference equations

19:00 *Welcome party*

**Room 302b** Chairman: Teresa Faria

16:30–16:45 **Lucia Lopez-Somoza** (Spain)  
Lower and upper functions method for even order boundary value problems

16:50–17:05 **Tomoharu Suda** (Japan)  
Equivalence of ill-posed dynamical systems

17:10–17:25 **Marc Homs-Dones** (UK)  
Simplest bifurcation diagram of vector fields on a torus

17:30–17:45 **Satyam Narayan Srivastava** (Israel)  
Vallée-Poussin theorem for fractional functional differential equations

19:00 *Welcome party*

### MONDAY – PDE MINISYMPOSIA

**Room 104** Keynote speaker: Miroslav Bulíček

#### PDE-04 Open systems in PDE describing flows of fluids

- 14:00–14:25 **Miroslav Bulíček** (Czech Republic)  
Convergence to equilibria for weak solutions of heat conducting non-Newtonian fluids
- 14:30–14:55 **Daniel Lear** (Czech Republic)  
Traveling waves close to the Couette flow
- 15:00–15:25 **Josef Málek** (Czech Republic)  
On rate-type viscoelastic fluids with stress diffusion and their large-data analysis
- 15:30–15:55 **Casey Rodriguez** (USA)  
On elastic strain-limiting special Cosserat rods
- 16:00–16:30 *Coffee break*

**Room 103** Keynote speaker: Philippe Souplet

#### PDE-08 Qualitative behavior in nonlinear parabolic problems

- 14:00–14:25 **Piotr Biler** (Poland)  
Large global solutions of the parabolic-parabolic Keller-Segel system, and blowup for related toy models
- 14:30–14:55 **Phillipe Laurencot** (France)  
TBA
- 15:00–15:25 **Carlos Esteve Yague** (UK)  
Boundary behaviour for viscous and inviscid Hamilton-Jacobi equations
- 15:30–15:55 **Philippe Pierre Souplet** (France)  
Diffusive Hamilton-Jacobi equations and their singularities
- 16:00–16:30 *Coffee break*

**Room 303** Keynote speaker: Matteo Franca

#### PDE-11 Qualitative behavior of nonlinear Laplace and $p$ -Laplace equations

- 14:00–14:25 **Matteo Franca** (Italy)  
Ordering properties for radial solutions of  $p$ -Laplace equations
- 14:30–14:55 **Francesca Colasuonno** (Italy)  
Two solutions to a  $p$ -Laplacian supercritical Neumann problem: existence and asymptotics

- 15:00–15:25 **Soo Hyun Bae** (Republic of Korea)  
Asymptotic behavior of singular solutions of nonlinear elliptic equations
- 15:30–15:55 **Francesca Dalbono, Matteo Franca** (Italy)  
A bifurcation phenomenon for the critical Laplace and  $p$ -Laplace equation in the ball
- 16:00–16:30 *Coffee break*

### MONDAY – PDE CONTRIBUTED TALKS

**Room 104** Chairman: Pavel Drábek

- 16:30–16:45 **Masaaki Mizukami** (Japan)  
Blow-up in a two-species chemotaxis-competition system
- 16:50–17:05 **Tai Phuoc Nguyen** (Czech Republic)  
Semilinear nonlocal elliptic equations involving measures
- 17:10–17:25 **Saadet Erbay** (Turkey)  
Convergence of the nonlocal nonlinear equation to the nonlinear elasticity equation
- 17:30–17:45 **Karol Wojciech Hajduk** (Poland)  
Towards global existence in the 3D chemorepulsion system
- 19:00 *Welcome party*

**Room 103** Chairman: Phillipe Laurencot

- 16:30–16:45 **Matteo Rizzi** (Germany)  
Normalised solutions to semilinear equations with potential
- 16:50–17:05 **Erika Maringová** (Austria)  
On implicit constitutive relations to parabolic problems
- 17:10–17:25 **Igor Kossowski** (Poland)  
Nonlocal heat equations with generalized fractional Laplacian
- 17:30–17:45 **Władysław Jan Klinikowski** (Poland)  
Periodic solutions of nonlinear damped wave equations on  $\mathbb{R}^N$
- 19:00 *Welcome party*

### MONDAY – NAA MINISYMPOSIA

**Room 106** Keynote speaker: Robert Nürnberg

#### NAA-09 Finite element methods for geometric PDEs

- 14:00–14:25 **Robert Nürnberg** (Italy)  
A generalized DeTurck trick for anisotropic curve shortening flow
- 14:30–14:55 **Tim Binz** (Germany)  
TBA



- 15:00–15:25 **Björn Stinner** (UK)  
Convergent FE schemes using the Dirichlet energy for mesh smoothing
- 15:30–15:55 **Elena Bachini** (Germany)  
An intrinsic finite element method for PDEs on surfaces
- 16:00–16:30 *Coffee break*

**Room 304** Keynote speaker: Thomas Richter

**NAA-10 Hybrid pde simulations using deep neural networks**

- 14:00–14:25 **Thomas Richter** (Germany)  
Hybridization of finite element and neural network simulations
- 14:30–14:55 **Alexander Heinlein** (Netherlands)  
Surrogate models for computational fluid dynamics simulations using convolutional autoencoder neural networks and physical constraints
- 15:00–15:25 **Robert Jendersie** (Germany)  
Enhancing a multigrid solver for the Navier-Stokes equations with deep learning
- 16:00–16:30 *Coffee break*

**MONDAY – NAA CONTRIBUTED TALKS**

**Room 106** Chairman: Patrick Farrell

- 16:30–16:45 **Michal Beneš** (Czech Republic)  
Normal and binormal motion of interacting curves in space
- 16:50–17:05 **Husnu Ata Erbay** (Turkey)  
Error estimates of a semi-discrete numerical scheme for nonlocally regularized KdV-type equations
- 17:10–17:25 **Teresa Kunkel** (Germany)  
Observer-based data assimilation for isothermal gas transport using distributed measurements
- 17:30–17:45 **Jiten C. Kalita** (India)  
Computation of flow past cactus-shaped cylinders: A hybrid immersed interface approach
- 19:00 *Welcome party*

## TUESDAY – JULY 12

### TUESDAY – PLENARY LECTURES

**Aula** Chairman: Eduard Feireisl

9:00–9:55 **Barbara Wohlmuth** (Germany)  
Algorithms and applications of fractional PDEs

10:00–10:25 *Coffee break*

### TUESDAY – INVITED LECTURES

**Room 102 (ODE)** Chairman: Mihály Pituk

10:30–11:05 **Masakazu Onitsuka** (Japan)  
Ulam stability of generalized logistic equations

11:10–11:45 **Jan Čermák** (Czech Republic)  
Stability regions for linear fractional and delay differential equations

12:00–14:00 *Lunch*

**Room 104 (PDE)** Chairman: Agnieszka Świerczewska-Gwiazda

10:30–11:05 **Ulisse Stefanelli** (Austria)  
Doubly nonlinear stochastic evolution equations

11:10–11:45 **Gianluca Crippa** (Switzerland)  
An elementary proof of existence and uniqueness for the Euler flow in uniformly localized Yudovich spaces

12:00–14:00 *Lunch*

**Room 106 (NAA)** Chairman: Dirk Praetorius

10:30–11:05 **Ulrik Skre Fjordholm** (Norway)  
Numerical methods for conservation laws on networks

11:10–11:45 *Lunch*

### TUESDAY – ODE MINISYMPOSIA

**Room 102** Keynote speakers: Serena Matucci, Pavel Řehák

**ODE-07 Asymptotic theory of differential and integral equations**

14:00–14:25 **Serena Matucci** (Italy)  
Existence and multiplicity of decaying solutions to BVP on the half-line for nonlinear equations with  $p$ -Laplacian

14:30–14:55 **Luisa Malaguti** (Italy)  
Diffusion-convection reaction equations with sign-changing diffusivity

15:00–15:25 **Paola Rubbioni** (Italy)  
Asymptotic stability of solutions of differential equations with delay

15:30–15:55 **Pavel Řehák** (Czech Republic)  
Nonlinear Poincaré–Perron theorem

16:00–16:30 *Coffee break*

**Room 302a** Keynote speaker: Roberta Fabbri

**ODE-05 Qualitative theory for linear Hamiltonian systems and nonautonomous dynamical systems**

14:00–14:25 **Roberta Fabbri** (Italy)  
Some results for nonautonomous linear Hamiltonian systems

14:30–14:55 **Peter Šepitka** (Czech Republic)  
New comparison theorems for solutions of Riccati matrix differential equations without controllability condition

15:00–15:25 **Abel Garab** (Austria)  
Absence of small solutions and existence of Morse decomposition for a cyclic system of delay differential equations

15:30–15:55 **Ana M. Sanz** (Spain)  
Qualitative theory for monotone and sublinear non-autonomous finite-delay FDEs for an exponential ordering

16:00–16:30 *Coffee break*

**Room 302b** Keynote speaker: Agnieszka Malinowska

**ODE-04 On consensus in multi-agent Systems**

14:00–14:25 **Agnieszka B. Malinowska** (Poland)  
Stability of multi-agents systems under DoS attacks

14:30–14:55 **Ewa Girejko** (Poland)  
On impact of disturbance in the deployment problem of multi-agent system

15:00–15:25 **Dorota Mozyrska** (Poland)  
Numerical simulations of fractional consensus approach in attitude dynamics modeling

15:30–15:55 **Malgorzata Wyrwas** (Poland)  
Consensus of a fractional model in attitude dynamics

16:00–16:30 *Coffee break*

## TUESDAY – ODE CONTRIBUTED TALKS

**Room 102** Chairman: Milan Tvrđý

- 16:30–16:45 **Tomáš Kisela** (Czech Republic)  
Oscillatory properties of fractional delay differential equations
- 16:50–17:05 **Giselle A. Monteiro** (Czech Republic)  
On discontinuous sweeping processes and vanishing viscosity approximations
- 17:10–17:25 **Shuenn-Yih Chang** (Taiwan)  
Problem-dependent formulas for solving stiff problems
- 17:30 *Poster session*

**Room 302a** Chairman: Josef Diblík

- 16:30–16:45 **Michal Veselý** (Czech Republic)  
Perturbations of homogeneous linear difference systems with coefficient matrices from commutative groups
- 16:50–17:05 **Hiroshi Kajimoto** (Japan)  
Ordinary differential equations derived from cluster integrals
- 17:10–17:25 **Jiřina Šišoláková** (Czech Republic)  
Non-oscillation of linear and half-linear Euler type differential equations
- 17:30 *Poster session*

**Room 302b** Chairman: Feliz Minhós

- 16:30–16:45 **Jorge Rodríguez-López** (Spain)  
Transversality conditions for discontinuous differential equations
- 16:50–17:05 **Martina Pavlačková** (Czech Republic)  
Semilinear second-order differential inclusions in abstract spaces
- 17:10–17:25 **Natalia Dilna** (Slovak Republic)  
 $D$ -stability of the initial value problem for symmetric nonlinear functional differential equations
- 17:30 *Poster session*

## TUESDAY – PDE MINISYMPOSIA

**Room 104** Keynote speaker: Antonín Slavík, Petr Stehlík

### PDE-01 Spatially discrete evolution equations

- 14:00–14:25 **Hermen Jan Hupkes** (Netherlands)  
Discrete mean curvature flows
- 14:30–14:55 **Vladimír Švígler** (Czech Republic)  
Propagation reversal for bistable differential equations on trees

- 15:00–15:25 **Antonín Slavík** (Czech Republic)  
Spatial maxima, unimodality, and asymptotic behavior of solutions to discrete diffusion equation
- 15:30–15:55 **Petr Stehlík** (Czech Republic)  
Bifurcations in Nagumo equations on graphs
- 16:00–16:30 *Coffee break*

**Room 103** Keynote speaker: Roman Shvydkoy

**PDE-07 Hydrodynamics of collective behavior**

- 14:00–14:25 **Roman Shvydkoy** (USA)  
Global hypocoercivity of Fokker-Plank-Alignment models
- 14:30–14:55 **Daniel Lear** (Czech Republic)  
Unidirectional flocks in collective dynamics
- 15:00–15:25 **Trevor M Leslie** (USA)  
Sticky Particle Methods for the 1D Euler Alignment System
- 15:30–15:55 **Jan Peszek** (Poland)  
Heterogeneous gradient flows with applications to collective dynamics
- 16:00–16:30 *Coffee break*

**TUESDAY – PDE CONTRIBUTED TALKS**

**Room 104** Chairman: Ulisse Stefanelli

- 16:30–16:45 **Pavel Drábek** (Czech Republic)  
On Szegő–Weinberger inequalities for special type of domains
- 16:50–17:05 **Jiří Benedikt** (Czech Republic)  
Maximum principles for parabolic  $p$ -Laplacian problems
- 17:10–17:25 **Lukáš Kotrla** (Czech Republic)  
Comparison principles in problems with  $p$ -Laplacian
- 17:30 *Poster session*

**Room 103** Chairman: George Avalos

- 16:30–16:45 **Jan Eisner** (Czech Republic)  
Critical points for reaction diffusion system with unilateral conditions
- 16:50–17:05 **Andrii Khrabustovskyi** (Czech Republic)  
Operator estimates for homogenization in perforated domains
- 17:10–17:25 **Sumit Arora** (India)  
Finite-approximate controllability of fractional functional evolution equation via variational approach
- 17:30 *Poster session*

**Room 303** Chairman: Casey Rodriguez

16:30–16:45 **Angela Bašić-Šiško** (Croatia)  
Existence and uniqueness of a generalized solution to the one-dimensional flow and thermal explosion micropolar reactive real gas model

16:50–17:05 **Miroslav Kolář** (Czech Republic)  
Area preserving geodesic curvature driven flow of closed curves on a surface

17:30 *Poster session*

### TUESDAY – NAA MINISYMPOSIA

**Room 106** Keynote speaker: Klemens Fellner

**NAA-03 Evolution differential equations with application to physics and biology II**

14:00–14:25 **Klemens Fellner** (Austria)  
Oscillatory behaviour of a nonlinear Becker-Döring type model for prion dynamics

14:30–14:55 **Michael Kniely** (Germany)  
Global weak and renormalized solutions to a class of energy-reaction-diffusion systems

15:00–15:25 **Martin Brokate** (Germany)  
Strong stationarity for an optimal control problem for a rate independent evolution

15:30–15:55 **Bao Quoc Tang** (Austria)  
On dissipative reaction-diffusion systems

16:00–16:30 *Coffee break*

**Room 304** Keynote speaker: Karen Veroy-Grepl

**NAA-05 Informing physics-based models through data**

14:00–14:25 **Karen Veroy-Grepl** (Netherlands)  
Optimal experimental design in the deterministic and probabilistic settings

14:30–14:55 **Han Cheng Lie** (Germany)  
Overconfidence in numerical Bayesian inference

15:00–15:25 **Masoumeh Dashti** (UK)  
Nonparametric Bayesian inference of discretely observed diffusions

16:00–16:30 *Coffee break*

**Room 303** Keynote speaker: Max Jensen

**NAA-07 Computational methods for fully nonlinear equations and applications**

- 14:00–14:25 **Max Jensen** (United Kingdom)  
Discretising boundary conditions of fully nonlinear equations
- 14:30–14:55 **Indranil Chowdhury** (Croatia)  
On numerical schemes for fractional order Mean Field Games
- 15:00–15:25 **Dietmar Gallistl** (Germany)  
Convergence of a regularized finite element discretization of the two-dimensional Monge–Ampère equation
- 15:30–15:55 **Iain Smears** (UK)  
Adaptive methods for fully nonlinear PDE
- 16:00–16:30 *Coffee break*

### TUESDAY – NAA CONTRIBUTED TALKS

**Room 106** Chairman: Michal Beneš

- 16:30–16:45 **Petr Tomášek** (Czech Republic)  
Numerical solution of Caputo fractional differential equations initial value problems
- 16:50–17:05 **Utku Kaya** (Germany)  
Local pressure-corrections for incompressible flows
- 17:10–17:25 **Sunčica Sakić** (Czech Republic)  
On the error analysis of the time-continuous Discontinuous Galerkin scheme for degenerate parabolic equations
- 17:30 *Poster session*

## WEDNESDAY – JULY 13

### WEDNESDAY – PLENARY LECTURES

**Aula** Chairman: Mária Lukáčová-Medvidová

- 8:30–9:25 **Juncheng Wei** (Canada)  
Stability of Sobolev inequalities and related topics
- 9:30–10:00 *Coffee break*

### WEDNESDAY – OTHER PROGRAM

- 10:00–11:55 MINISYMPOSIA (see below)
- 12:00 *Lunch*
- 13:15 *Trip – meeting*
- 13:30 *Trip – boarding*
- 13:40 *Trip – departure*

### WEDNESDAY – ODE MINISYMPOSIA

**Room 102** Keynote speaker: Mihály Pituk

#### **ODE-03 Qualitative properties of ordinary and delay differential equations**

- 10:00–10:25 **Mihály Pituk** (Hungary)  
Explicit values of the oscillation bounds for linear delay differential equations
- 10:30–10:55 **Davor Dragičević** (Croatia)  
Shadowing for nonautonomous differential equations
- 11:00–11:25 **Teresa Faria** (Portugal)  
Permanence and stability for a Nicholson's equation with mixed monotonicities
- 11:30–11:55 **Tibor Krisztin** (Hungary)  
Periodic and connecting orbits for Mackey–Glass type equations

**Room 103** Keynote speaker: Alexander Domoshnitsky

#### **ODE-02 Stability of functional differential equations**

- 10:00–10:25 **Alexander Domoshnitsky** (Israel)  
On stability of delay differential equations
- 10:30–10:55 **Anatoli F. Ivanov** (USA)  
Global asymptotic stability and periodic solutions in scalar differential delay equations
- 11:00–11:25 **Irada A. Dzhalladova** (Czech Republic)  
Dynamical system with the non-Markovian process: stability and optimization



**Room 303** Keynote speaker: Alberto Cabada

**ODE-09 Topological and iterative methods on boundary value problems**

- 10:00–10:25 **Alberto Cabada** (Spain)  
Comparison results for local and nonlocal linear boundary value problems
- 10:30–10:55 **Sladana B. Dimitrijević** (Serbia)  
The existence of a solution for nonlinear fractional differential equations where nonlinear term depends on the fractional and first order derivative of an unknown function
- 11:00–11:25 **Feliz Minhós** (Portugal)  
On impulsive functional coupled systems of differential equations

**WEDNESDAY – PDE MINISYMPOSIA**

**Room 104** Keynote speaker: Šárka Nečasová

**PDE-03 Mathematical analysis: the interaction of fluids and solids**

- 10:00–10:25 **Šárka Nečasová** (Czech Republic)  
Existence of a weak solution to the problem of an interaction of compressible fluid with elastic structure
- 10:30–10:55 **Justin T. Webster** (USA)  
Semigroup generation for Biot-Stokes interactions
- 11:00–11:25 **Boris Muha** (Croatia)  
Fluid - Poroelastic Structure Interactions
- 11:30–11:55 **George Avalos** (USA)  
Qualitative properties of a multilayered elasticity system - Stokes interaction

**Room 302a** Keynote speaker: Teresa Isernia

**PDE-12 Nonlinear elliptic PDEs**

- 10:00–10:25 **Teresa Isernia** (Italy)  
Multiplicity and concentration results for some nonlinear Schrödinger equations with the fractional  $p$ -Laplacian
- 10:30–10:55 **Bartosz Bieganowski** (Poland)  
Normalized ground states of the nonlinear Schrödinger equation with at least mass critical growth
- 11:00–11:25 **Laura Baldelli** (Poland)  
Nonlinear elliptic critical problems in  $\mathbb{R}^N$
- 11:30–11:55 **Ángel Crespo-Blanco** (Germany)  
Parametric superlinear double phase problems with singular term and critical growth on the boundary

**Room 302b** Keynote speaker: Vít Průša

**PDE-09 Complex dynamical systems in continuum mechanics**

- 10:00–10:25 **Vít Průša** (Czech Republic)  
Non-Linear stability and non-equilibrium thermodynamics – There and back again
- 10:30–10:55 **Angiolo Farina** (Czech Republic)  
Mathematical modelling of viscoplastic flows
- 11:00–11:25 **Laurent Martin Witkowski** (Czech Republic)  
On the role of arbitrary pollution effects on the stability of swirling free-surface flows
- 11:30–11:55 **Nicolas Boulle** (Czech Republic)  
Bifurcation analysis of Rayleigh-Bénard convection using deflation

**Room 304** Keynote speaker: Dan Goreac

**PDE-10 Differential equations with random features and applications**

- 11:00–11:25 **Dan Goreac** (China)  
HJB approach to stochastic models of epidemics
- 11:30–11:55 **Eduard Rotenstein** (Romania)  
Nonlinear Fokker-Planck equation on unbounded domain and featuring generalized reflecting boundary conditions

**WEDNESDAY – NAA MINISYMPOSIA**

**Room 106** Keynote speaker: Martin Vohralík

**NAA-01 Error control and adaptivity in numerical simulations**

- 10:00–10:25 **Martin Vohralík** (France)  
Error control and adaptivity in numerical simulations
- 10:30–10:55 **Tomáš Vejchodský** (Czech Republic)  
A posteriori error bounds for eigenfunctions
- 11:00–11:25 **Philip Lukas Lederer** (France)  
A note on asymptotically exact a posteriori error estimates for mixed Laplace eigenvalue problems
- 11:30–11:55 **Ani Miraçi** (Austria)  
A-posteriori-steered  $h$ - and  $p$ -robust multigrid solvers

**Room 304** Keynote speaker: Victor A. Kovtunenکو

**NAA-02 Evolution differential equations with application to physics and biology I**

- 10:00–10:25 **Victor A. Kovtunenکو** (Austria)  
On solution of initial boundary value problems in hypoplasticity
- 10:30–10:55 **Bao Ngoc Tran** (Austria)  
QSSA of the Michaelis-Menten reaction-diffusion system

**THURSDAY – JULY 14****THURSDAY – PLENARY LECTURES**

**Aula** Chairman: Barbara Kaltenbacher

9:00–9:55 **Alessandro Fonda** (Italy)  
Generalizations of the Poincaré–Birkhoff Theorem for Hamiltonian systems

10:00–10:30 *Coffee break*

**THURSDAY – INVITED LECTURES**

**Room 102 (ODE)** Chairman: Elena Braverman

10:30–11:05 **Jean-Philippe Lessard** (Canada)  
TBA

11:10–11:45 **Jaqueline Godoy Mesquita** (Brazil)  
Neutral FDEs with state-dependent delays: linearized instability principle

12:00–14:00 *Lunch*

**Room 104 (PDE)** Chairman: Gianluca Crippa

10:30–11:05 **Dorin Bucur** (France)  
Shape optimization in Stokes fluids

11:10–11:45 **Vincenzo Ambrosio** (Italy)  
Fractional periodic problems with critical growth

12:00–14:00 *Lunch*

**Room 106 (NAA)** Chairman: Barbara Wohlmuth

10:30–11:05 **Daniel Peterseim** (Germany)  
Nonlinear eigenvector problems and the simulation of Bose-Einstein condensates

11:10–11:45 **Patrick Farrell** (UK)  
New finite elements for extremely high-order FEM

12:00–14:00 *Lunch*

**ERC PRESENTATION**

**Room 102** Chairman: Josef Málek

16:30 ERC presentation

**THURSDAY – ODE MINISYMPOSIA**

**Room 102** Keynote speaker: Josef Diblík

**ODE-10** **Advanced, delayed and mixed equations. Representation of solutions, boundedness, stability**

- 14:00–14:25 **Josef Diblík** (Czech Republic)  
Exponential stability of linear delayed equations
- 14:30–14:55 **Ferenc Hartung** (Hungary)  
Differentiability of solutions with respect to parameters in a class of neutral differential equations with state-dependent delays
- 15:00–15:25 **Gergely Röst** (Hungary)  
Hopf bifurcation made simple for some scalar DDEs
- 15:30–15:55 **Abel Garab** (Austria)  
Sharp oscillation criteria for first order linear differential equations with variable delays
- 16:00–16:30 *Coffee break*

**Room 103** Keynote speaker: Guglielmo Feltrin, Elisa Sovrano

**ODE-06 Advances for problems with nonlinear differential operators**

- 13:30–13:55 **Elisa Sovrano** (Italy)  
Reactive-convective Perona-Malik equations: regular vs. nonregular wavefronts
- 14:00–14:25 **Maurizio Garrione** (Italy)  
Nonlinear diffusions and wave fronts: some recent results
- 14:30–14:55 **Katarzyna Szymanska-Debowska** (Poland)  
Differential equations involving homeomorphism with nonlinear boundary conditions
- 15:00–15:25 **Eduardo Muñoz-Hernández** (Spain)  
Nodal solutions in a class of Sturm-Liouville BVP's with nonnegative degenerate weights
- 15:30–15:55 **Guglielmo Feltrin** (Italy)  
Periodic solutions to a perturbed relativistic Kepler problem
- 16:00–16:30 *Coffee break*

**THURSDAY – ODE CONTRIBUTED TALKS**

**Room 302a** Chairman: Jan Čermák

- 16:30–16:45 **Petr Hasil** (Czech Republic)  
Riccati technique and conditional oscillation of second order equations
- 16:50–17:05 **Zuzana Pátíková** (Czech Republic)  
Neutral half-linear differential equations and the modified Riccati technique
- 17:10–17:25 **Irena Jadlovská** (Slovensko)  
Kneser oscillation theorem for second-order half-linear delay differential equations

19:00 *Conference dinner*

**Room 302b** Chairman: Davor Dragičević

- 16:30–16:45 **Ignacio Marquez Albes** (Spain)  
Second order Stieltjes derivatives and differential equations
- 16:50–17:05 **Mónika Polner** (Hungary)  
Bifurcations of neural fields on the sphere
- 17:10–17:25 **Viera Štoudková Růžičková** (Czech Republic)  
Discrete Riccati matrix equation and the order preserving property
- 17:30–17:45 **Gabriela Vážanová** (Czech Republic)  
Asymptotic behavior of solutions to an advance-delay differential equation

19:00 *Conference dinner*

#### THURSDAY – PDE MINISYMPOSIA

**Room 104** Keynote speaker: Milan Pokorný

##### PDE-06 Analysis of compressible multiphase systems

- 14:00–14:25 **Milan Pokorný** (Czech Republic)  
Two-phase compressible/incompressible Navier–Stokes system with inflow-outflow boundary conditions
- 14:30–14:55 **Nilasis Chaudhuri** (UK)  
Analysis of generalized Aw-Rascle system
- 15:00–15:25 **Cheng Yu** (USA)  
Infinitely many solutions to the isentropic system of gas dynamics
- 15:30–15:55 **Nicola Zamponi** (Austria)  
Nonisothermal Richards flow in porous media with cross diffusion
- 16:00–16:30 *Coffee break*

**Room 302a** Keynote speaker: Aneta Wróblewska-Kamińska

##### PDE-05 Analysis of multiscale problems in PDEs

- 14:00–14:25 **Aneta Wróblewska-Kamińska** (Poland)  
Multiscale analysis, low Mach number limit: from compressible to incompressible system
- 14:30–14:55 **Matteo Caggio** (Czech Republic)  
Low Mach number flows and dimension reduction in fluid mechanics
- 15:00–15:25 **Tomasz Debiec** (France)  
Incompressible limit for a two-species tumour growth model
- 15:30–15:55 **Václav Mácha** (Czech Republic)  
Low stratification of the complete Euler system
- 16:00–16:30 *Coffee break*

**Room 302b** Keynote speaker: Sebastian Schwarzacher

**PDE-02 Analysis for fluid-structure interactions**

- 14:00–14:25 **Sebastian Schwarzacher** (Czech Republic)  
Contactless rebound of elastic bodies in a viscous incompressible fluid
- 14:30–14:55 **Barbora Benešová** (Czech Republic)  
A variational approach to fluid structure interaction
- 15:00–15:25 **Richard Höfer** (France)  
Homogenization of the Navier-Stokes equations in perforated domains in the inviscid limit
- 15:30–15:55 **Srdan Trifunović** (Serbia)  
Time-periodic solutions to a compressible fluid and beam interaction problem
- 16:00–16:30 *Coffee break*

**THURSDAY – PDE CONTRIBUTED TALKS**

**Room 104** Chairman: Dorin Bucur

- 16:30–16:45 **Marko Radulovic** (Croatia)  
The effects of viscous dissipation on the Darcy–Brinkman flow
- 16:50–17:05 **Volodymyr Mikhailets** (Ukraine)  
Parabolic boundary-value problems in generalized Sobolev spaces
- 17:10–17:25 **Tomomi Yokota** (Japan)  
Stabilization in degenerate parabolic equations in divergence form and application to chemotaxis systems
- 17:30–17:45 **Phuoc-Truong Huynh** (Austria)  
Semilinear nonlocal elliptic equations with source term and measure data
- 19:00 *Conference dinner*

**Room 103** Chairman: Piotr Biler

- 16:30–16:45 **Tomáš Bárta** (Czech Republic)  
Stokes problem with dynamic boundary conditions
- 16:50–17:05 **Petr Pauš** (Czech Republic)  
Analytical and numerical solution of curve dynamics modeling dislocation dynamics and topological changes
- 19:00 *Conference dinner*

**Room 303** Chairman: Masaaki Mizukami

- 16:30–16:45 **Yuya Tanaka** (Japan)  
Blow-up phenomena in a quasilinear chemotaxis system with logistic source

- 16:50–17:05 **Malte Kampschulte** (Czech Republic)  
Variational methods for non-convex problems involving inertia
- 17:10–17:25 **Yutaro Chiyo** (Japan)  
Behavior of solutions to a quasilinear attraction-repulsion chemotaxis system
- 17:30–17:45 **Djamal Ait-Akli** (Algeria)  
Initial-boundary value problem for second order hyperbolic operator with mixed boundary conditions
- 19:00 *Conference dinner*

#### THURSDAY – NAA MINISYMPOSIA

**Room 106** Keynote speaker: Robert Scheichl

##### NAA-04 Numerical homogenisation and multiscale methods

- 14:00–14:25 **Robert Scheichl** (Germany)  
Multiscale spectral generalised finite element methods
- 14:30–14:55 **Jean Bénézech** (UK)  
Scalable MS-GFEM applied to composite aero-structures
- 15:00–15:25 **Philip Freese** (Germany)  
Super-localized orthogonal decomposition for convection-dominated diffusion problems
- 15:30–15:55 **Kathrin Smetana** (USA)  
Randomized multiscale methods for heterogeneous nonlinear PDEs
- 16:00–16:30 *Coffee break*

**Room 303** Keynote speaker: Karel Tůma

##### NAA-11 Mathematical models and numerical methods in solid mechanics

- 14:00–14:25 **Karel Tůma** (Czech Republic)  
Phase-field model for evolution of martensitic microstructure in shape memory alloys: large-scale finite element simulations
- 14:30–14:55 **Pablo Alexei Gazca Orozco** (Czech Republic)  
Numerical computations for a novel description of rate-type inelastic responses in solids
- 15:00–15:25 **Mohsen Rezaee Hajidehi** (Poland)  
A coupled phase-field and crystal plasticity model for deformation twinning and plastic slip
- 15:30–15:55 **Miroslav Frost** (Czech Republic)  
Numerical implementation of constitutive models of materials with strongly coupled dissipative processes
- 16:00–16:30 *Coffee break*

**Room 304** Keynote speaker: Marie-Therese Wolfram

**NAA-08 Structure preserving methods for evolution equations**

14:00–14:25 **Marie-Therese Wolfram** (UK)

Lagrangian schemes for Wasserstein Gradient Flows

14:30–14:55 **Bertram Düring** (UK)

On a structure-preserving variational scheme for nonlinear diffusion equations

15:00–15:25 **Nora Marie Philippi** (Germany)

A structure preserving discretization scheme for gas transport in pipe networks

16:00–16:30 *Coffee break*

**THURSDAY – NAA CONTRIBUTED TALKS**

**Room 106** Chairman: Carola-Bibiane Schönlieb

16:30–16:45 **Miloslav Feistauer** (Czech Republic)

Theory and applications of the DGM in time dependent domains

16:50–17:05 **Vít Dolejší** (Czech Republic)

Discontinuous Galerkin method for nonlinear partial differential equations: goal-oriented error estimates

17:10–17:25 **Scott Congreve** (Czech Republic)

Iterative discontinuous Galerkin finite element method for strongly monotone quasi-linear PDEs

19:00 *Conference dinner*



**FRIDAY – JULY 15****FRIDAY – PLENARY LECTURES****Aula** Chairman: Zuzana Došlá9:00–9:55 **Barbara Kaltenbacher** (Austria)

Mathematics of nonlinear acoustics: modeling, analysis and inverse problems

10:00–10:30 *Coffee break***FRIDAY – INVITED LECTURES****Room 102 (ODE)** Chairman: Robert Hakl10:30–11:05 **Pedro J. Torres** (Spain)

Periodic solutions of the Lorentz force equation

**Room 104 (PDE)** Chairman: Šárka Nečasová10:30–11:05 **Philippe Laurencot** (France)

The thin film Muskat problem

**Room 106 (NAA)** Chairman: Daniel Peterseim10:30–11:05 **Carola-Bibiane Schönlieb** (UK)

Machine learned regularization for solving inverse problems

**FRIDAY – ODE CONTRIBUTED TALKS****Room 102** Chairman: Masakazu Onitsuka11:20–11:35 **Swaroop Nandan Bora** (India)

New asymptotic stability conditions for linear time-varying fractional systems

11:40–11:55 **Maria Guadalupe Morales Macias** (Czech Republic)

Almost oscillatory fractional differential equations

12:30–12:40 *Closing ceremony*12:45 *Lunch***Room 103** Chairman: Jan Tomeček11:20–11:35 **Piotr Stefaniak** (Poland)

Periodic solutions to symmetric Newtonian systems in neighborhoods of orbits of equilibria

11:40–11:55 **Věra Krajšćáková** (Czech Republic)

Multiplicity results for bouncing solutions of generalized Lazer-Solimini equation

12:00–12:15 **Michaela Zahradníková** (Czech Republic)

Fisher–Kolmogorov equation with discontinuous density dependent diffusion

12:30–12:40 *Closing ceremony*

12:45 *Lunch*

### FRIDAY – PDE CONTRIBUTED TALKS

**Room 104** Chairman: Volodymyr Mikhailets

11:20–11:35 **Rakesh Arora** (Czech Republic)

Existence and regularity results for a class of parabolic problems with double phase flux of variable growth

11:40–11:55 **Buddhika Priyasad Sembukutti Liyanage** (Czech Republic)

The existence and dimension of the attractor for the 3D flow of a non-Newtonian fluid subject to dynamic boundary conditions

12:00–12:15 **Hana Levá** (Czech Republic)

Travelling wave solutions of the suspension bridge type equation

12:30–12:40 *Closing ceremony*

12:45 *Lunch*

### FRIDAY – PDE+NAA CONTRIBUTED TALKS

**Room 106** Chairman: Miloslav Feistauer

11:20–11:35 **Jiří Vala** (Czech Republic)

Numerical approaches to the modelling of fracture in quasi-brittle materials

11:40–11:55 **Jana Radová** (Czech Republic)

Identification of material parameters for Gao beam

12:00–12:15 **Michael Zelina** (Czech Republic)

On the uniqueness of the solution and finite-dimensional attractors for the 3D flow with dynamic boundary condition

12:30–12:40 *Closing ceremony*

12:45 *Lunch*

**MONDAY, JULY 11**

## Plenary lectures

	<b>Aula</b>
9:00–9:15	<i>Opening Ceremony</i>
<b>Chairman</b>	Fonda
9:15–10:10	Siegmund
10:15–10:45	<i>Coffee break</i>
<b>Chairman</b>	Wei
10:45–11:40	Lukáčová-Medvidová

## Invited lectures

	<b>Room 102</b>	<b>Room 104</b>	<b>Room 106</b>
	ODE SESSION	PDE SESSION	NAA SESSION
<b>Chairman</b>	Andres	Ambrosio	Nürnberg
11:50–12:25	Braverman	Swierczewska-Gwiazda	Praetorius
12:30–14:00	<i>Lunch</i>		

## MONDAY, JULY 11

### ODE minisymposia

	<b>Room 102</b>	<b>Room 302a</b>	<b>Room 302b</b>
	ODE MS-11	ODE MS-01	ODE MS-08
14:00–14:25	Tomeček*	Nishiguchi	Manojlović*
14:30–14:55	Atlasiuk	Fujimoto	Djordjević
15:00–15:25	Andres	Hakl	Kapešić
15:30–15:55	Tvrđý	Matsunaga*	Rasvan
16:00–16:30	<i>Coffee break</i>		

\*Keynote speaker

### ODE contributed talks

	<b>Room 102</b>	<b>Room 302a</b>	<b>Room 302b</b>
<b>Chairman</b>	Godoy Mesquita	Ivanov	Faria
16:30–16:45	Huzak	Burkotová	López-Somoza
16:50–17:05	Zemánek	Ficek	Suda
17:10–17:25	Nechvátal	Balázs	Homs-Dones
17:30–17:45	Gidoni	Jekl	Srivastava
19:00–	<i>Welcome party</i>		

**MONDAY, JULY 11**

## PDE minisymposia

	<b>Room 104</b>	<b>Room 103</b>	<b>Room 303</b>
	PDE MS-04	PDE MS-08	PDE MS-11
14:00–14:25	Bulíček*	Biler	Franca*
14:30–14:55	Lear	Laurencot	Colasuonno
15:00–15:25	Málek	Esteve Yague	Bae
15:30–15:55	Rodriguez	Souplet*	Dalbono, Franca
16:00–16:30	<i>Coffee break</i>		

\*Keynote speaker

## PDE contributed talks

	<b>Room 104</b>	<b>Room 103</b>
<b>Chairman</b>	Drábek	Laurencot
16:30–16:45	Mizukami	Rizzi
16:50–17:05	Nguyen	Maringová
17:10–17:25	S. Erbay	Kossowski
17:30–17:45	Hajduk	Klinikowski
19:00–	<i>Welcome party</i>	

**MONDAY, JULY 11**

## NAA minisymposia

	<b>Room 106</b>	<b>Room 304</b>
	NAA MS-09	NAA MS-10
14:00–14:25	Nürnberg*	Richter*
14:30–14:55	Binz	Heinlein
15:00–15:25	Stinner	Jendersie
15:30–15:55	Bachini	
16:00–16:30	<i>Coffee break</i>	

\*Keynote speaker

## NAA contributed talks

	<b>Room 106</b>
<b>Chairman</b>	Farell
16:30–16:45	Beneš
16:50–17:05	H. A. Erbay
17:10–17:25	Kunkel
17:30–17:45	Kalita
19:00–	<i>Welcome party</i>

**TUESDAY, JULY 12**

## Plenary lectures

	<b>Aula</b>
<b>Chairman</b>	Feireisl
9:00–9:55	Wohlmuth
10:00–10:30	<i>Coffee break</i>

## Invited lectures

	<b>Room 102</b>	<b>Room 104</b>	<b>Room 106</b>
	ODE SESSION	PDE SESSION	NAA SESSION
<b>Chairman</b>	Pituk	Świerczewska-Gwiazda	Praetorius
10:30–11:05	Onitsuka	Stefanelli	Fjordholm
11:10–11:45	Čermák	Crippa	
12:00–14:00	<i>Lunch</i>		

**TUESDAY, JULY 12**

## ODE minisymposia

	<b>Room 102</b>	<b>Room 302a</b>	<b>Room 302b</b>
	ODE MS-07	ODE MS-05	ODE MS-04
14:00–14:25	Matucci*	Fabbri*	Malinowska*
14:30–14:55	Malaguti	Šepitka	Girejko
15:00–15:25	Rubbioni	Garab	Mozyrska
15:30–15:55	Řehák*	Sanz	Wyrwas
16:00–16:30	<i>Coffee break</i>		

\*Keynote speaker

## ODE contributed talks

	<b>Room 102</b>	<b>Room 302a</b>	<b>Room 302b</b>
<b>Chairman</b>	Tvrký	Diblík	Minhós
16:30–16:45	Kisela	Veselý	Rodríguez-López
16:50–17:05	Monteiro	Kajimoto	Pavlačková
17:10–17:25	Chang	Šišoláková	Dilna
17:30–	<i>Poster session</i>		



**TUESDAY, JULY 12**

## PDE minisymposia

	<b>Room 104</b>	<b>Room 103</b>
	PDE MS-01	PDE MS-07
14:00–14:25	Hupkes	Shvydkoy*
14:30–14:55	Švígler	Lear
15:00–15:25	Slavík*	Leslie
15:30–15:55	Stehlík*	Peszek
16:00–16:30	<i>Coffee break</i>	

\*Keynote speaker

## PDE contributed talks

	<b>Room 104</b>	<b>Room 103</b>	<b>Room 303</b>
<b>Chairman</b>	Stefanelli	Avalos	Rodriguez
16:30–16:45	Drábek	Eisner	Bašić-Šiško
16:50–17:05	Benedikt	Khrabustovskyi	Kolář
17:10–17:25	Kotrla	S. Arora	
17:30–	<i>Poster session</i>		

**TUESDAY, JULY 12**

## NAA minisymposia

	<b>Room 106</b>	<b>Room 303</b>	<b>Room 304</b>
	NAA MS-03	NAA MS-07	NAA MS-05
14:00–14:25	Fellner*	Jensen*	Vero-Grepl*
14:30–14:55	Kniely	Chowdhury	Lie
15:00–15:25	Brokate	Gallistl	Dashti
15:30–15:55	Tang	Smears	
16:00–16:30	<i>Coffee break</i>		

\*Keynote speaker

## NAA contributed talks

	<b>Room 106</b>
<b>Chairman</b>	Beneš
16:30–16:45	Tomášek
16:50–17:05	Kaya
17:10–17:25	Sakić
17:30–	<i>Poster session</i>

**WEDNESDAY, JULY 13**

## Plenary lectures

	<b>Aula</b>
<b>Chairman</b>	Lukáčová
8:30–9:25	Wei
9:30–10:00	<i>Coffee break</i>

## ODE minisymposia

	<b>Room 102</b>	<b>Room 103</b>	<b>Room 303</b>
	ODE MS-03	ODE MS-02	ODE MS-09
10:00–10:25	Pituk*	Domoshnitsky*	Cabada*
10:30–10:55	Dragičević	Ivanov	Dimitrijević
11:00–11:25	Faria	Dzhalladova	Minhós
11:30–11:55	Krisztin		
12:00–13:15	<i>Lunch</i>		

\*Keynote speaker

13:15	<i>Trip – meeting</i>
13:30	<i>Trip – boarding</i>
13:40	<i>Trip – departure</i>

**WEDNESDAY, JULY 13**

## PDE minisymposia

	<b>Room 104</b>	<b>Room 302a</b>	<b>Room 302b</b>	<b>Room 304</b>
	PDE MS-03	PDE MS-12	PDE MS-09	PDE MS-10
10:00–10:25	Nečasová*	Isernia*	Průša*	
10:30–10:55	Webster	Bieganowski	Farina	
11:00–11:25	Muha	Baldelli	Martin Witkowski	Goreac*
11:30–11:55	Avalos	Crespo-Blanco	Boulle	Rotenstein
12:00–13:15	<i>Lunch</i>			

\*Keynote speaker

## NAA minisymposia

	<b>Room 106</b>	<b>Room 304</b>
	NAA MS-01	NAA MS-02
10:00–10:25	Vohralík*	Kovtunenکو*
10:30–10:55	Vejchodský	Ngoc
11:00–11:25	Lederer	
11:30–11:55	Miraçi	
12:00–13:15	<i>Lunch</i>	

\*Keynote speaker

13:15	<i>Trip – meeting</i>
13:30	<i>Trip – boarding</i>
13:40	<i>Trip – departure</i>

**THURSDAY, JULY 14**

## Plenary lectures

	<b>Aula</b>
<b>Chairman</b>	Kaltenbacher
9:00–9:55	Fonda
10:00–10:30	<i>Coffee break</i>

## Invited lectures

	<b>Room 102</b>	<b>Room 104</b>	<b>Room 106</b>
	ODE SESSION	PDE SESSION	NAA SESSION
<b>Chairman</b>	Braverman	Crippa	Wohlmuth
10:30–11:05	Lessard	Bucur	Peterseim
11:10–11:45	Godoy Mesquita	Ambrosio	Farrell
12:00–13:30	<i>Lunch</i>		

**THURSDAY, JULY 14**

## ODE minisymposia

	<b>Room 102</b>	<b>Room 103</b>
	ODE MS-10	ODE MS-06
13:30–13:55		Sovrano*
14:00–14:25	Diblík*	Garrione
14:30–14:55	Hartung	Szymańska-Dębowska
15:00–15:25	Röst	Muñoz-Hernández
15:30–15:55	Garab	Feltrin*
16:00–16:30	<i>Coffee break</i>	

\*Keynote speaker

## ODE contributed talks

	<b>Room 302a</b>	<b>Room 302b</b>
<b>Chairman</b>	Čermák	Dragičević
16:30–16:45	Hasil	Marquez Albes
16:50–17:05	Pátíková	Polner
17:10–17:25	Jadlovská	Štoudková Růžičková
17:30–17:45		Vázanová
19:00–	<i>Conference dinner</i>	

	<b>Room 102</b>
<b>Chairman</b>	Málek
16:30	<i>ERC presentation</i>

**THURSDAY, JULY 14**

## PDE minisymposia

	<b>Room 104</b>	<b>Room 302a</b>	<b>Room 302b</b>
	PDE MS-06	PDE MS-05	PDE MS-02
14:00–14:25	Pokorný*	Wróblewska-Kamińska*	Schwarzacher*
14:30–14:55	Chaudhuri	Caggio	Benešová
15:00–15:25	Yu	Dębiec	Höfer
15:30–15:55	Zamponi	Mácha	Trifunović
16:00–16:30	<i>Coffee break</i>		

\*Keynote speaker

## PDE contributed talks

	<b>Room 104</b>	<b>Room 103</b>	<b>Room 303</b>
<b>Chairman</b>	Bucur	Biler	Mizukami
16:30–16:45	Radulovic	Bárta	Tanaka
16:50–17:05	Mikhailets	Pauš	Kampschulte
17:10–17:25	Yokota		Chiyo
17:30–17:45	Huynh		Ait-Akli
19:00–	<i>Conference dinner</i>		

	<b>Room 102</b>
<b>Chairman</b>	Málek
16:30	<i>ERC presentation</i>

**THURSDAY, JULY 14**

## NAA minisymposia

	<b>Room 106</b>	<b>Room 303</b>	<b>Room 304</b>
	NAA MS-04	NAA MS-11	NAA MS-08
14:00–14:25	Scheichl*	Tůma*	Wolfram*
14:30–14:55	Bénézech	Gazca Orozco	Düring
15:00–15:25	Freese	Rezaee Hajidehi	Philippi
15:30–15:55	Smetana	Frost	
16:00–16:30	<i>Coffee break</i>		

\*Keynote speaker

## NAA contributed talks

	<b>Room 106</b>
<b>Chairman</b>	Schönlieb
16:30–16:45	Feistauer
16:50–17:05	Dolejší
17:10–17:25	Congreve
17:30–17:45	
19:00–	<i>Conference dinner</i>

	<b>Room 102</b>
<b>Chairman</b>	Málek
16:30	<i>ERC presentation</i>



**FRIDAY, JULY 15**

## Plenary lectures

	<b>Aula</b>
<b>Chairman</b>	Došlá
9:00–9:55	Kaltenbacher
10:00–10:30	<i>Coffee break</i>

## Invited lectures

	<b>Room 102</b>	<b>Room 104</b>	<b>Room 106</b>
	ODE SESSION	PDE SESSION	NAA SESSION
<b>Chairman</b>	Hakl	Nečasová	Peterseim
10:30–11:05	Torres	Laurencot	Schönlieb

**FRIDAY, JULY 15**

## Contributed talks

	<b>Room 102</b>	<b>Room 103</b>	<b>Room 104</b>	<b>Room 106</b>
	ODE SESSION	ODE SESSION	PDE SESSION	PDE+NAA
<b>Chairman</b>	Onitsuka	Tomeček	Mikhailets	Feistauer
11:20–11:35	Bora	Stefaniak	R. Arora	Vala
11:40–11:55	Morales Macias	Krajšćáková	Sembukutti	Radová
12:00–12:15		Zahradníková	Levá	Zelina
12:30–12:40	<i>Closing ceremony</i>			
12:45–	<i>Lunch</i>			