GAMM2025

Tuesday 8 April 2025

S14: Applied analysis: S14.01 - Room 3 (16:30 - 18:30)

-Conveners: Tomasz Dębiec; Katharina Hopf

time	[id] title	presenter
16:30	[306] From compressible to incompressible, MHD with non-conservative boundary condition	WRÓBLEWSKA-KAMIŃSKA, Aneta
16:50	[307] Existence and weak-strong uniqueness of suitable weak solutions to an anisotropic electrokinetic flow model	PLATO, Luisa
17:10	[308] Long-time asymptotics of the damped Euler equations by parabolic scaling	EITER, Thomas
17:30	[309] Analysis of a viscoplastic Burgers equation	THOMAS, Marita
17:50	[310] Darcy's law for inhomogeneous incompressible flows	OSCHMANN, Florian

Wednesday 9 April 2025

S14: Applied analysis: S14.02 - Room 3 (08:30 - 10:10)

-Conveners: Tomasz Dębiec; Aneta Wróblewska-Kamińska

time	[id] title	presenter
08:30	[311] Variational modelling of porosity waves	ZAFFERI, Andrea
08:50	[312] Energy-variational structure in evolution equations	LASARZIK, Robert
09:10	[314] On some explicit solutions of the linearised Prandtl equations via hypergeometric functions	DE ANNA, Francesco
09:30	[313] On the connection of the Prandtl equations and the harmonic oscillator	KORTUM, Joshua
09:50	[315] On an inhomogeneous coagulation model describing sedimentation	CRISTIAN, Iulia

S14: Applied analysis: S14.03 - Room 3 (16:30 - 18:30)

-Conveners: Marita Thomas; Manuel Friedrich

time	[id] title	presenter
16:30	[316] Magnetic skyrmions	SIMON, Theresa
17:10	[317] Amplitude equations for the fractional Swift-Hohenberg equation	THROM, Sebastian
17:30	[318] Stress-Modulated Growth in the Presence of Nutrients	BLAWID, Julian
17:50	[319] On the Derivation of the Timoshenko Beam Model from Nonlinear Elasticity by Gamma-Convergence	FASTOVSKA, Tamara
18:10	[383] Legendre-Hadamard conditions in the nonlinear theory of fiber-reinforced elastic solids and shells	BIRSAN, Mircea

Thursday 10 April 2025

S14: Applied analysis: S14.04 - Room 3 (08:30 - 10:30)

-Conveners: Sebastian Throm; Katharina Hopf

time	[id] title	presenter
08:30	[321] Localisation Limits and Degenerate Cross-Diffusion Systems	SCHMIDTCHEN, Markus
08:50	[322] Advection and enhanced diffusion in some active scalar problems	KALININ, Konstantin
09:10	[323] Discrete-to-continuum limit for reaction-diffusion systems via variational convergence of gradient systems	HEINZE, Georg
09:30	[324] On time-splitting methods for gradient flows with two dissipation mechanisms	STEPHAN, Artur
09:50	[325] On asymptotically self-similar behavior in reaction-diffusion systems	SCHINDLER, Stefanie
10:10	[326] Conditional Exponential Equilibration of Electro-Energy-Reaction-Diffusion Systems	KNIELY, Michael

S14: Applied analysis: S14.05 - Room 3 (14:00 - 16:00)

-Conveners: Florian Oschmann; Markus Schmidtchen

time	[id] title	presenter
14:00	[327] On a non-isothermal Allen-Cahn model for tumor growth	IPOCOANA, Erica
14:20	[328] Viscoelastic Phase Separation: Well-posedness and Singular Limit to Viscous Cahn–Hilliard Equation	GAU, Moritz
14:40	[329] Analysis of a Cahn-Hilliard model for viscoelastoplastic two phase flows in geodynamics	CHENG, Fan
15:00	[330] Sharp Interface Reduction of a Mesoscale Model for Two-Species Surfactant Films	FUCHS, Jakob
15:20	[331] A fully coupled Stokes-transport system modeling thermoregulation in human skin	HACKER, Kilian
15:40	[334] Γ-Convergence and Stochastic Homogenization of Second-Order Singular Perturbation Models for Phase Transitions	DONNARUMMA, Antonio Flavio

S14: Applied analysis: S14.06 - Room 3 (16:30 - 18:30)

-Conveners: Thomas Eiter; Michael Kniely

time	[id] title	presenter
16:30	[339] Polarization filter as a homogenisation limit for Maxwell's equations	WIEDEMANN, David
16:50	[341] Time-harmonic Maxwell’s equations in half-waveguides	SCHUBERT, Tim
17:10	[349] Boundary-field formulation for transient electromagnetic scattering by dielectric scatterers and coated conductors	WENDLAND, Wolfgang
17:30	[354] Existence and Uniqueness of Fractional Integro-Differential Equations with Singular Kernel	VERMA, Pratibha
17:50	[355] Global Solver based on the Sperner-Lemma and Mazurkewicz-Knaster-Kuratowski-Lemma based proof of the Brouwer Fixed-Point theorem	MOSHAGEN, Thilo

18:10	[363] On regularity for systems of elliptic equations with mixed boundary conditions	TSOPANOPOULOS, Michael

Friday 11 April 2025

S14: Applied analysis: S14.07 - Room 3 (08:30 - 10:30)

-Conveners: Francesco De Anna; Theresa Simon

time	[id] title	presenter
08:30	[369] On the passage from nonlinear to linearized viscoelastodynamics	KAMPSCHULTE, Malte
08:50	[378] Positive temperature in nonlinear thermoviscoelasticity and the derivation of linearized models	MACHILL, Lennart
09:10	[320] Dynamic Optimal Transport with Optimal Preferential Paths	KRAUTZ, Juliane
09:30	[386] Balanced viscosity solutions for rate-independent systems with state-dependent dissipation and applications in non-associated plasticity	BODDIN, Samira
09:50	[387] Linearization of quasistatic evolution in fracture	FRIEDRICH, Manuel
10:10	[388] Characterizing BV- and BD-ellipticity for a class of positively 1-homogeneous surface energy densities	ENGL, Dominik