

	Monday, September 16		Tuesday, September 17		Wednesday, September 18		Thursday, September 19		Friday, September 20	
08:00	Registration								LehrerInnen-Tag Room W211/12	Hochschul-Tag Room W206
		08:30	P.4 Özlem Imamoglu (ETH)	08:30	P.6 Josef Hofbauer (UNI Wien)	08:30	P.8 Susanna Terracini (Università di Torino)	08:45	Registration	Registration
09:00	Opening Ceremony							09:15	L.1 Tichy (TU Graz)	HT.1 Pickhardt (HS Albstadt Sigmaringen)
09:30	P.1 Wilhelm Schlag (Yale University)	09:30	👤	09:30	P.7 ÖMG Award Winner: Christopher Frei (University of Manchester)	09:30	👤	10:15	👤	👤
10:30	👤	10:00	M1. Industrial and Applied Mathematics, M6. Enumerative and Algebraic Combinatorics & Sections S01, S05, S07, S08, S12	10:30	👤	10:00	M2. Mathematical Finance in the age of Machine Learning, M4. Spectral Theory, M5. Inverse Problems for Partial Differential Equations	10:45	L.2 Dorner (UNI Graz)	HT.2 Süss-Stepancik (PH NÖ)
11:00	P.2 Helmut Pottmann (KAUST & TU Wien)			11:00	M5. Inverse Problems for Partial Differential Equations & Sections S06, S10			11:45	Lunch	Lunch
12:00	Lunch	12:30	Lunch	12:30	Lunch	12:30	Lunch			
13:45	P.3 Marlis Hochbruck (KIT Karlsruhe)	14:00	P.5 Efstathia Bura (TU Wien)	14:00	Excursions	14:00	P.9 Fritz Gesztesy (Baylor University)	13:30	L.3 Lindner (PH OÖ)	HT.3 Gröbinger (UNI Innsbruck)
14:45	👤	15:00	👤			15:00	👤	14:30	👤	👤
15:15	M1. Industrial and Applied Mathematics, M3. Parallel and Distributed Optimization and Simulation, M6.Enumerative and Algebraic Combinatorics & Sections S01, S08, S11	15:30	Sections S02, S03, S05, S07, S08, S09			15:30	M2. Mathematical Finance, M4. Spectral Theory, M5. Inverse Problems for Partial Differential Equations	15:00	Discussion	Discussion
16:45	Break	17:00	Break	17:00	Start guided walk or take the	17:00	Break	16:30	Closing	Closing
17:15	M1. Industrial and Applied Mathematics, M3. Parallel and Distributed Optimization and Simulation, M6.Enumerative and Algebraic Combinatorics & Sections S01, S08, S11	17:30	Sections S02, S03, S04, S05, S07, S09	17:30	Cable Car	17:30	M2. Mathematical Finance, M4. Spectral Theory, M5. Inverse Problems for Partial Differential Equations			
				18:30	Reception and Conference Dinner at Karren					
19:00	Reception at Café Schräg	19:00				19:00	Public lecture by Karl Sigmund (UNI Wien)			

Monday, September 16, Afternoon & Evening Sessions

	Room W211/12	Room W205	Room W206
	Minisymposium M1: Industrial and Applied Mathematics	Section S11: Probability, Statistics	Section S08: Functional Analysis, Real and Complex Analysis
15:15	M1a.1 C. Erath Efficient solving of a time-dependent interface problem.	S11a.1 T. Fetz Computing upper probabilities of failure using Monte Carlo simulation, reweighting techniques. . .	S08a.1 M. Kolář Infinitesimal symmetries of weakly pseudoconvex manifolds.
15:30			
15:45	M1a.2 K. Frick Using extended Kalman Filters for solving non-linear inverse problems.	S11a.2 E. Sönmez Random Walk on the Random Connection Model.	S08a.2 M. Reiter The reflection map of sphere mappings.
16:00			
16:15	M1a.3 R. Kowar Iterative methods for PAT in dissipative media.	S11a.3 C. Pfeifer Embedding an empirically based decision strategy for backcountry skiers into a subjective probability. . .	S08a.3 G. Racher On Fourier multipliers.
16:30			
16:45			
17:00			
17:15	M1b.1 G. Zangerl Full field inversion in photoacoustic tomography with variable sound speed.	S11b.1 W. Woess Recurrence of 2-dimensional queueing processes, and random walk exit times from the quadrant.	S08b.1 C. Bargetz On Generic Properties of Nonexpansive Mappings.
17:30			
17:45	M1b.2 B. Kaltenbacher Parameter identification and uncertainty quantification in stochastic state space models and its application . . .	S11b.2 A. Steinicke BSDEs with Jumps in the L^p -setting: Existence, Uniqueness and Comparison.	S08b.2 E. Nigsch The geometrization of the theory of full Colombeau algebras.
18:00			
18:15	M1b.3 L. Neumann Block coordinate descent method for ill-posed problems.		
18:30			
18:45			

	Room U405	Room U406	Room U407
	Section S01: Logic, Set Theory, and Theoretical Computer Science	Minisymposium M3: Parallel and Distributed Optimization and Simulation	Minisymposium M6: Enumerative and Algebraic Combinatorics
15:15	S01a.1 M. Koelbing Distributivity of forcing notions.	M3a.1 H. Shoukourian Predicting the efficiency of LRZ's cooling infrastructure using machine learning.	M6a.1 W. Fang The Steep-Bounce Zeta Map in Parabolic Cataland.
15:30			
15:45	S01a.2 J. P. Schürz Strong measure zero sets on $2^{\mathbb{K}}$.	M3a.2 P. Gschwandtner Towards Multi-objective, Region-based Auto-tuning for Parallel Programs.	M6a.2 A. R. Miller Some results on characters of symmetric groups.
16:00			
16:15	S01a.3 J. Schilhan The tower spectrum.	M3a.3 T. Feilhauer Optimization with the Distributed Execution Framework.	
16:30			
16:45			
17:00			
17:15	S01b.1 L. Halbeisen Formen des Auswahlaxioms in der Ringtheorie.	M3b.1 K. Rheinberger Analyzing Autonomous Demand Side Algorithms with Parallel Computation Frameworks.	M6b.1 M. Schlosser A weight-dependent inversion statistic and Catalan numbers.
17:30			
17:45			
18:00			
18:15	S01b.2 V. Torres-Pérez		
18:30	Diamonds, games and cardinal invariants.		
18:45			

Tuesday, September 17, Morning Sessions

	Room W211/12	Room W205	Room W206	Room U210
	Minisymposium M1: Industrial and Applied Mathematics	Section S07: Partial Differential Equations and Calculus of Variations	Section S08: Functional Analysis, Real and Complex Analysis	Section S12: Financial and Actuarial Mathematics
10:00	M1c.1 M. Liebrecht Process Model for the Industrial Plate Leveling Operation with Special Emphasis on Online...	S07a.1 B. Schörkhuber Nonlinear asymptotic stability of homothetically shrinking Yang-Mills solitons.	S08c.1 M. Dymond Highly irregular separated nets..	S12.1 J. Sass Utility Maximizing Strategies under Increasing Model Uncertainty in a Multivariate Black...
10:15	M1c.2 D. Rothermel Nonlinear inverse heat transfer problems in modelling the cooling process of heavy plates.		S08c.2 I. Kossovskiy Classification of homogeneous strictly pseudoconvex hypersurfaces in \mathbb{C}^3 .	S12.2 S. Desmettre Severity Modeling of Extreme Insurance Claims for Tariffication.
10:30	M1c.3 P. Sellars Graph Based Methods for Hyperspectral Image Classification.	S07a.2 R. Bürger Two-locus clines maintained by diffusion and recombination in a heterogeneous environment.	S08c.3 F. Haslinger The ∂ -complex on the Segal-Bargmann space.	S12.3 J. A. Strini Optimal dividends and funding in risk theory.
10:45	M1c.4 J. Schwab Regularizing Networks for Solving Inverse Problems.	S07a.3 S. Blatt The negative L^2 gradient flow for p -elastic energies.	S08c.4 K. Gröchenig Sampling, Marcinkiewicz-Zygmund sets, approximation, and quadrature rules.	S12.4 S. Thonhauser Optimal reinsurance for expected penalty functions in risk theory.
11:00	M1c.5 A. Maier Known Operator Learning – An Approach to unite Physics, Signal Processing, and Machine Learning.	S07a.4 A. Kiesenhofer Small data global regularity for half-wave maps in 4 dimensions.		

	Room U405	Room U406	Room U407
	Section S01: Logic, Set Theory, and Theoretical Computer Science	Section S05: Computational Geometry and Topology	Minisymposium M6: Enumerative and Algebraic Combinatorics
10:00	S01c.1 M. Müller Automating Resolution is NP-Hard.	S05a.1 R. Kwitt Deep Homological Learning.	M6c.1 M. Kauers Making Many More Matrix Multiplication Methods.
10:15		S05a.2 D. Egas Santander Topological explorations in neuroscience.	M6c.2 B. Stuffer Local convergence of random planar graphs.
10:30	S01c.2 S. Schumacher The relation between two weak choice principles.	S05a.3 A. Rolle Spaces of clusterings.	
10:45		S05a.4 A. Nikitenko Stochastic applications of discrete topology.	M6c.3 E. Y. Jin Exact and asymptotic enumeration of ascent sequences and Fishburn matrices.
11:00	S01c.3 V. Fischer Independence and almost disjointness.	S05a.5 Ž. Virk Detecting lengths of geodesics with higher-dimensional persistence.	
11:15			
11:30	S01c.4 W. Wohofsky Cardinal characteristics and the Borel Conjecture.		
11:45			
12:00			
12:15			
12:30			

Tuesday, September 17, Afternoon & Evening Sessions

	Room W211/12	Room W205	Room W206
	Section S09: Numerical Analysis, Scientific Computing	Section S07: Partial Differential Equations and Calculus of Variations	Section S08: Functional Analysis, Real and Complex Analysis
15:30	S09a.1 O. Steinbach Space-Time Finite Element Methods.	S07b.1 I. Glogić Threshold for blowup for the supercritical cubic wave equation.	S08d.1 S. Haller The heat kernel expansion of Rockland differential operators and applications to generic rank two...
15:45		S07b.2 N. Vorderobermeier On the analyticity of critical points of the Möbius energy.	S08d.2 U. Grupel Intersections with random geodesics in high dimensions.
16:00	S09a.2 R. Eberle Vibration of a beam under structural randomness.	S07b.3 L. Cossetti Unique Continuation for the Zakharov Kuznetsov equation.	
16:15	S09a.3 A. K. Yadav Effect of Impedance on Reflection of Plane Waves in a Rotating Magneto-thermoelastic...		
16:30			
16:45			
17:00			
17:15			
17:30	S09b.1 J. M. Melenk An adaptive algorithm for the fractional Laplacian.	S07c.1 L. Forcella Interpolation theory and regularity for incompressible fluid models.	
17:45		S07c.2 D. S. Wallauch Stable blowup for a nonlinear Klein-Gordon equation.	
18:00	S09b.2 V. Devi An operational matrix approach for two-dimensional hyperbolic telegraph equation.	S07c.3 A. Tumanyan Fredholm property of regular hypoelliptic operators in multianisotropic Sobolev spaces.	
18:15			
18:30	S09b.3 R. K. Maurya Multistep finite difference scheme for electromagnetic waves model arising from dielectric media.		
18:45			
19:00			

	Room U405	Room U406	Room U407
	Section S03: Number Theory	Section S05: Computational Geometry and Topology	S02: Algebra, Discrete Mathematics; S04: Algebraic Geometry, Convex and Discrete Geometry
15:30	S03a.1 K. Destagnol Counting points of given degree and bounded height via the height zeta function.	S05b.1 J. Liang Topological Structures of Probabilistic Landscape of Stochastic Reaction Networks.	S02a.1 A. Panholzer Label-quantities in trees and mappings.
15:45		S05b.2 L. L. Cristea On fractal geometric and topologic properties of triangular labyrinth fractals.	S02a.2 D. Krenn Optimal Multi-Pivot Quicksort and its Asymptotic Analysis.
16:00		S05b.3 G. Leobacher Necessary and sufficient conditions for the local unique nearest point property of a real...	S02a.3 M. Wibmer Galois groups of differential equations.
16:15	S03a.2 N. Rome On Serre's Problem for Conics.		
16:30			
16:45			
17:00			
17:15			
17:30	S03b.1 C. Frei Arithmetic progressions in binary quadratic forms and norm forms.	S05c.1 A. Brown Convergence and Stability of Random Mapper.	S02b.1 A. Zastrow Some observations on Archipelago-Groups.
17:45		S05c.2 U. Bauer Dualities and clearing for image persistence.	S04.1 H. Al-Zoubi Anchor rings of finite type Gauss map in the Euclidian 3-space.
18:00			
18:15			
18:30	S03b.2 S. Yamagishi Solving equations in many variables in primes.		
18:45			
19:00			



Wednesday, September 18, Morning Sessions

	Room W211/12	Room W205	Room W206
	Minisymposium M5: Inverse Problems for Partial Differential Equations	Section S06: Ordinary Differential Equations and Dynamical Systems	Section S10: Optimization
11:00	M5a.1 M. Haltmeier NETT: Solving Inverse Problems with Deep Neural Networks.	S06.1 P. Szmolyan Periodic solutions and switching behavior in a model of bipolar disorder.	S10.1 I. A. R. Moghrabi A Multi-step Hybrid Conjugate Gradient Method.
11:15			
11:30	M5a.2 D. Obmann Sparse synthesis regularization using deep neural networks.	S06.2 Y. Halim On a system of difference equations of second order solved in a closed form.	
11:45			
12:00	M5a.3 R. Ramlau Singular Value Decomposition for Atmospheric Tomography.	S06.3 C. E. Arroud Optimality conditions of Moreau sweeping process.	
12:15			
12:30			

Changes

Thursday, September 19, Morning Sessions

	Room W211/12	Room W205	Room W206
	Minisymposium M5: Inverse Problems for Partial Differential Equations	Minisymposium M2: Mathematical Finance in the age of Machine Learning	Minisymposium M4: Spectral Theory
10:00	M5b.1 W. Rundell Determining nonlinear terms in a reaction-diffusion system.	M2a.1 J. -P. Ortega Dynamic and Control Theoretical Aspects of Reservoir Computing.	M4a.1 T. Kappeler On the integrability of the Benjamin-Ono equation with periodic boundary conditions.
10:15			
10:30	M5b.2 F. Hettlich Identification and Design of EM-Chiral Scattering Obstacles.	M2a.2 L. Grigoryeva Forecasting of Realized (Co)Variances with Reservoir Computing.	M4a.2 A. Sakhnovich Discrete Dirac systems: spectral and scattering theories and Verblunsky-type. . .
10:45			
11:00	M5b.3 A. Agaltsov Uniqueness and reconstruction in a passive inverse problem of heliogeismology.	M2a.3 L. Gonon Error Bounds for Random Recurrent Neural Networks and General Reservoir Computing Systems.	M4a.3 A. Kostenko On the absolutely continuous spectrum of generalized indefinite strings.
11:15			
11:30	M5b.4 A. Wald Parameter identification for the Landau-Lifshitz-Gilbert equation in Magnetic Particle Imaging.	M2a.4 T. Krabichler Deep ALM.	M4a.4 R. Donninger Strichartz estimates for the one-dimensional wave equation.
11:45			
12:00	M5b.5 G. Mercier On convergence of Total Variation regularized inverse problems.	M2a.5 A. Kratsios Universal Approximation Theorems.	
12:15			
12:30			

Thursday, September 19, Afternoon & Evening Sessions

	Room W211/12	Room W205	Room W206
	Minisymposium M5: Inverse Problems for Partial Differential Equations	Minisymposium M2: Mathematical Finance in the age of Machine Learning	Minisymposium M4: Spectral Theory
15:30	M5c.1 I. Piotrowska- Kurczewski Generalized tolerance regularization.	M2b.1 H. Wutte Randomized shallow neural networks and their use in understanding gradient descent.	M4b.1 G. Raikov Threshold Singularities of the Spectral Shift Function for Geometric Perturbations of a Magnetic Hamiltonian.
15:45			
16:00	M5c.2 F. Romero Hinrichsen Dynamical super-resolution with applications to Ultrafast ultrasound imaging.	M2b.2 C. Cuchiero Modeling rough covariance processes.	M4b.2 J. Michor Rarefaction and shock waves for the Toda equation.
16:15			
16:30	M5c.3 R. Klein Regularizing sequential subspace optimization for the identification of the stored energy of a . . .	M2b.3 W. Khosrawi A Neural Network Approach to Local Stochastic Volatility Calibration.	M4b.3 M. Piorkowski Riemann-Hilbert approach to asymptotic analysis.
16:45			
17:00			
17:15			
17:30	M5d.1 S. Eberle Solving the inverse problem of linear elasticity with monotonicity methods.	M2c.1 J. Teichmann Learning stochastic dynamics by random signatures with applications to mathematical Finance.	M4c.1 R. Sousa Product formulas and convolutions for solutions of Sturm-Liouville equations.
17:45			
18:00		M2c.2 S. Svaluto-Ferro Infinite dimensional polynomial jump-diffusions.	M4c.2 Z. Rao Optimal Blowup Stability for the Energy Critical Wave Equation.
18:15			
18:30		M2c.3 S. Rigger Interacting Particle Systems, Default Cascades and the M1-topology.	
18:45			
19:00			