Friday, 21 August

Plenary Lectures

9:30 – 10:30 **Auditorium Maximum H 105**

Helmut H.W. Hofer, Courant Institute, New York University, New York, USA
Dynamics, Topology, and Holomorphic Curves *(I: p.8)*
Chair: Vladimir Arnold, Steklov Mathematical Institute, Moscow, Russia

11:00 – 12:00 **Auditorium Maximum H 105**

Vladimir Voevodsky, Northwestern University, Evanston, USA
Homotopy Theory of Algebraic Varieties *(I: p.28)*
Chair: Eric Mark Friedlander, Northwestern University, Evanston, USA

Invited Lectures

14:00 – 14:45

04 **Mikhail M. Kapranov,** Northwestern University, Evanston, USA **MA 005**
Operads and algebraic geometry *(I: p.65)*
Chair: Enrico Arbarello

05 **Simon K. Donaldson,** Stanford University, Stanford, USA **MA 001**
Positive line bundles in symplectic geometry *(I: p.69)*
Chair: Ulrich Pinkall

06 **Alexander N. Dranishnikov,** University of Florida, Gainesville, USA and Steklov Math. Institute, Moscow, Russia **MA 004**
Dimension theory and large Riemannian manifolds *(I: p.79)*
Chair: Alexander S. Mishchenko

09 **Shuhei Hayashi,** Waseda University, Tokyo, Japan **H 1012**
Hyperbolicity, stability and the creation of homoclinic points *(I: p.113)*
Chair: Jack Carr

11 **Fedor Smirnov,** CNRS, LPTHE, Université Pierre et Marie Curie, Paris, France **H 1028**
Space of local fields in integrable field theory and deformed Abelian integrals *(I: p.137)*
Chair: Andreas Fring

14 **Emo Welzl,** ETH Zürich, Zürich, Switzerland **H 2032**
Halving Point Sets *(I: p.175)*
Chair: Helmut Alt

15:00 – 15:45

04 **Victor Vadimovich Batyrev,** Universität Tübingen, Tübingen, Germany **MA 005**
Mirror symmetry and toric geometry *(I: p.60)*
Chair: Yujiro Kawamata

05 **François Labourie,** Université Paris-Sud, Orsay, France **MA 001**
Large Group Actions on Manifolds *(I: p.73)*
Chair: Ulrich Pinkall

06 **Michael Hartley Freedman,** Microsoft Corporation, Redmond, USA **MA 004**
Topological views of computational complexity *(I: p.80)*
Chair: Robert D. Edwards

09 **Michael Herman,** CNRS, Université Denis Diderot / Paris 7, Paris, France **H 1012**
Some open problems in dynamical systems *(I: p.114)*
Chair: Thomas Bartsch

11 **Roberto Schonmann,** UCLA, Los Angeles, USA **H 1028**
Metastability and the Ising model *(I: p.136)*
Chair: Christian Borgs

14 **Miklós Ajtai,** IBM Almaden Research Center, San Jose, USA **H 2032**
Worst-case Complexity, Average-case Complexity, and Lattice Problems *(I: p.165)*
Chair: Helmut Alt

16:15 – 17:00

02 **William M. Kantor,** University of Oregon, Eugene, USA **MA 005**
Simple Groups in Computational Group Theory *(I: p.41)*
Chair: Charles C. Sims

07 **Vera Serganova,** University of California, Berkeley, USA **MA 004**
On representations of Lie superalgebras *(I: p.95)*
Chair: Olivier Mathieu

08 **Michael Christ,** University of California, Berkeley, USA **MA 001**
Singularity and Regularity — Local and Global *(I: p.97)*
Chair: Daryl Geller

10 **Gustavo Alberto Ponce,** University of California, Santa Barbara, USA **H 1012**
On nonlinear dispersive equations *(I: p.125)*
Chair: Mikhail Shubin

12 **Mark Freidlin,** University of Maryland, College Park, USA **H 1028**
Random and Deterministic Perturbations of Nonlinear Oscillators *(I: p.141)*
Chair: Jürgen Gärtner

16 & 17 **William J. Cook,** Rice University, Houston, USA **H 2032**
The Traveling Salesman Problem *(I: p.186)*
Chair: Günter M. Ziegler

17:15 – 18:00

02 **Aleksandr Pukhlikov,** Institute for Systems Analysis, Moscow, Russia **MA 005**
Birational automorphisms of algebraic varieties *(I: p.42)*
Chair: Victor Vadimovich Batyrev

07 **Shahar Mozes,** Hebrew University, Jerusalem, Israel **MA 004**
Products of trees, lattices and simple groups *(I: p.93)*
Chair: Peter Sarnak

08 **Hart F. Smith,** University of Washington, Seattle, USA **MA 001**
Wave Equations with Low Regularity Coefficients *(I: p.107)*
Chair: Gerald B. Folland

10 **Frédéric Hélein,** CMLA, ENS-Cachan, Cachan, France **H 1012**
Phenomena of compensation and estimates for partial differential equations *(I: p.121)*
Chair: Gunther A. Uhlmann

12 **Jean-François Le Gall,** DMI — École Normale Supérieure, Paris, France **H 1028**
Branching processes, random trees and superprocesses *(I: p.147)*
Chair: Donald Dawson

17 **Jan C. Willems,** University of Groningen, Groningen, The Netherlands **H 2032**
Open Dynamical Systems and their Control *(I: p.195)*
Chair: Fritz Colonius

Short Communications and Poster Sessions

Short Communications: Friday, 21 August, 14:00–14:45			
	14:00–14:15	**14:15–14:30**	**14:30–14:45**
Sect.: **01**	Categories: Logic and Topology, *Chair: Gerhard Preuß*		
MA 042	**Michel Hebert** *Syntactic view on locally generated categories: abstract and concrete cases (p.7)*	**Dieter Leseberg** *Filterconvergence as a convenient concept for Topology (p.8)*	
Sect.: **02**	Groups II, *Chair: Mikhail H. Klin*		
MA 311	**Hubert Kiechle** *Frobenius groups with many involutions (p.20)*	**Anatolii S. Kondratiev** *Finite linear groups of small degree (p.20)*	**Wujie Shi** *A new classification of groups (p.28)*
Sect.: **07**	Quantum Groups and Vertex Operator Algebras, *Chair: Gerald Höhn*		
H 112	**Kailash C. Misra** *Demazure Crystals for quantum affine Lie algebras (p.108)*	**Naihuan Jing** *Quantized Kac-Moody algebras and symmetric functions (p.106)*	**Gerald Höhn** *Vertex Operator Algebras and 3-Dimensional Topological Quantum Field Theories (p.105)*
Sect.: **08**	Univalent Functions I, *Chair: Ruben A. Hidalgo*		
MA 041	**Bruce O'Neill** *Boundary Behavior of Conformal Mappings Associated with Singular Measures (p.145)*	**Teodor Bulboacă** *Differential subordinations and univalent integral operators (p.119)*	**Om Parkash Ahuja** *On Meromorphic Starlike and Convex Functions (p.113)*
Sect.: **08**	Integral Transforms II, *Chair: Kun Soo Chang*		
MA 309	**Yukio Kuribayashi** *On pseudofourier transforms (p.138)*	**Rama Rawat** *Pompeiu problem and L^p analogues of Wiener-Tauberian for certain homogeneous spaces (p.151)*	**Kun Soo Chang** *Integral transform and convolution of analytic funtionals on abstract Wiener space (p.120)*
Sect.: **08**	Banach Spaces, *Chair: David Yost*		
MA 043	**Parviz Azimi** *A class of hereditarily complementably ℓ_p Banach spaces (p.115)*	**Robb C. Fry** *Smooth Bump Functions on Banach Spaces (p.124)*	**David Yost** *Twisted sums of classical Banach spaces (p.165)*
Sect.: **10**	Elliptic Equations II (Singularities & Index Theory), *Chair: Vladimir S. Rabinovich*		
H 111	**Vladimir Borisovich Vasil'ev** *Wave factorization of elliptic symbols (p.223)*	**Igor I. Skrypnik** *Degree of densely defined $(S)_+$ operators and applications (p.222)*	**Vladimir S. Rabinovich** *Elliptic boundary value problems in domains with non-Lipschitz singular points (p.218)*
Sect.: **10**	Hyperbolic Equations I (Integrable Equations), *Chair: Jiahong Wu*		
H 110	**Igor Anders** *Long-time asymptotic behaviour of non-decaying solutions of KP-type equations (p.198)*	**Tariel Kiguradze** *On periodic solutions of nonlinear second order hyperbolic equations (p.209)*	**Jiahong Wu** *Zero dissipation limits of wave equations (p.225)*
Sect.: **12**	Stochastic Processes I, *Chair: Michael K.R. Scheutzow*		
H 107	**Yuriy V. Kolomiets** *On behavior of solutions of evolution equations perturbed by random processes (p.257)*	**Vassily A. Yaroshevsky** *Estimation of large deviations of dynamic system phase (p.273)*	**Anna V. Naydonova** *Analysis of Stochastic Recurrent Algorithms with the Random Reaction Time and Applications for Some Queueing Models (p.263)*
Sect.: **12**	Bayesian Methods, *Chair: Michael Nussbaum*		
H 1029	**Ammar Sarhan** *Empirical Bayes Estimators of Indexed Parameters of Exponential Families*	**Olaf Bunke** *Asymptotic behauviour of Bayes estimates under possibly incorrect models*	
Sect.: **16**	Mathematical Models in Biology, *Chair: Satoshi Takahashi*		
H 106	**Andrej Yu. Dubinsky** *Mathematical Modelling of electron and proton Transport in Chloroplasts (p.322)*	**Miguel Lara-Aparicio** *Some mathematical aspects of the simulation of the motor circadian rhythm in crayfish (p.327)*	**Satoshi Takahashi** *The oscillation of lateral asymmetry in scale-eating fish (p.333)*
Sect.: **17**	Optimality Conditions I, *Chair: Bernd Kugelmann*		
H 2033	**Vassili Dikoussar** *Optimal Control with Control-State Constraints (p.339)*		**Olga O. Vasilieva** *Optimality Conditions of Singular Controls (p.354)*
Sect.: **17**	Variational Inequalities/Fractal Graphs, *Chair: Walter Gomez Bofill*		
H 2013	**Walter Gomez Bofill** *On the regularity of one-parametric variational inequalities (p.341)*	**Olga A. Zinchenko** *The extreme graphs problems (p.356)*	**Anatolii Ivanovich Perov** *Discrete matrix Lur'e equation (singular case) (p.347)*

Short Communications: Friday, 21 August, 15:00–15:45

	15:00–15:15	15:15–15:30	15:30–15:45
Sect.: **01**	Set Theoretic Topology, *Chair: Dieter Leseberg*		
MA 042	**Gerhard Preuß** *Convenient Topology — A New Branch of Topology (p.9)*	**Harald Nusser** *Completions of probabilistic semiuniform convergence spaces (p.8)*	
Sect.: **02**	Groups III, *Chair: Andrew J. Woldar*		
MA 311	**Vahagn H. Mikaelian** *Embeddings of countable groups into 2-generator groups with additional properties (p.31)*	**Igor Ya. Subbotin** *On groups with many periodic factor-groups (p.30)*	**Leonid A. Kurdachenko** *On some infinite dimensional linear groups (p.21)*
Sect.: **07**	Quantum Groups and Poisson Homogeneous Spaces, *Chair: Kailash C. Misra*		
H 112	**Pu Zhang** *Ringel-Hall algebras and quantum groups (p.111)*	**Ho Hai Phung** *Rational representations of matrix quantum groups of type A_n (p.109)*	**Eugene A. Karolinsky** *A classification of Poisson homogeneous spaces of complex reductive Poisson-Lie groups (p.106)*
Sect.: **08**	Quasiconformal Maps, *Chair: Bruce O'Neill*		
MA 041	**Alexander Jur'evich Vasil'ev** *Two point distortion theorems for quasiconformal mappings (p.162)*	**Evsei M. Dynkin** *Smoothness of quasiconformal mappings at a point (p.122)*	**Vo Dang Thao** *Area Problem for quasiconformal mappings (p.160)*
Sect.: **08**	Sobolev Classes and Matrix Functions, *Chair: Ilya M. Spitkovsky*		
MA 309	**Serguei Vodop'yanov** *On open and discrete mappings of Sobolev classes with integrable dilatation (p.162)*	**Vladimir V. Peller** *Regularity conditions for vectorial stationary processes (p.147)*	**Ilya M. Spitkovsky** *Almost periodic factorization and its applications (p.157)*
Sect.: **08**	C*-Algebras, *Chair: George A. Elliott*		
MA 043	**Martin Mathieu** *A simple local multiplier algebra (p.140)*	**Michael Frank** *Conditional expectations of finite index and discrete group actions (p.124)*	**George A. Elliott** *An abstract Weyl–von Neumann theorem (p.123)*
Sect.: **10**	PDE and Mathematical Physics, *Chair: Roland Potthast*		
H 111	**Johannes Elschner** *Existence, uniqueness, and regularity for solutions of the conical diffraction problem (p.203)*	**Frank Jochmann** *Existence and asymptotic behavior of weak solutions of the drift diffusion equations for semiconductors (p.207)*	**Roland Potthast** *On mixed reciprocity relations in inverse scattering (p.217)*
Sect.: **10**	Navier-Stokes Equations, *Chair: Takeyuki Nagasawa*		
H 110	**Mikhail E. Bogovskii** *The problem of global smooth solutions for multidimensional Navier-Stokes equations solved (p.199)*	**Soichiro Katayama** *Some semilinear wave equations with nonlinear damping terms (p.208)*	**Takeyuki Nagasawa** *A new energy inequality and partial regularity for weak solutions of Navier-Stokes equations (p.215)*
Sect.: **12**	Stochastic Processes II, *Chair: Peter Imkeller*		
H 107	**Andrzej Makagon** *Periodically Correlated Processes and Mackey's Imprimitivity Theorem (p.259)*	**Boris G. Martchenko** *Concerning on a theorem for periodic in Slutskiy sense linear random processes (p.260)*	**Andrew Ya. Olenko** *On some properties of correlation and spectral functions (p.264)*
Sect.: **12**	Stochastic Algorithms, *Chair: Peter Mathé*		
H 1029	**Grigori Milstein** *The probability approach to numerical solution of nonlinear parabolic equations (p.261)*	**Vadim I. Arkin** *Optimal stopping problems with restrictions (p.248)*	**Peter Mathé** *Efficiency of Monte Carlo Integration Using Markov Chains (p.260)*
Sect.: **16**	Game Theory and Mathematical Economics, *Chair: Paul J. Campbell*		
H 106	**Fausto Mignanego** *Rationality of players and credibility of strategies in leader-follower games (p.330)*	**Serguei Z. Levendorski** *Generalizations of the Black-Scholes Formula for a Class of Truncated Lévy Processes (p.327)*	**Paul J. Campbell** *Klondike solitaire (p.321)*
Sect.: **17**	Controllability and Nonlinear Systems, *Chair: Shanjian Tang*		
H 2033	**Serikbai A. Aisagaliev** *Theory and constructive methods of solving the boundary problems of controllability processes (p.335)*	**Zbigniew J. Bartosiewicz** *Local observability, ideals, and finiteness conditions (p.336)*	**Shanjian Tang** *Brockett's problem of classification of finite-dimensional estimation algebras for Nonlinear Filtering Systems (p.352)*
Sect.: **17**	Multiobjective Optimization, *Chair: Jan-J. Ruckmann*		
H 2013	**Jürgen Guddat** *New Embeddings for Nonlinear Multiobjective Optimization Problems I (p.342)*	**Stefan M. Mititelu** *Optimality and duality in nonsmooth vector programming (p.345)*	

Short Communications: Friday, 21 August, 16:15–17:00

	16:15–16:30	16:30–16:45	16:45–17:00
Sect.: **03**	ALGEBRAIC GEOMETRY I, *Chair: Jürgen Wolfart*		
MA 311	**Emmanuel Peyre** *Heights and Tamagawa measures (p.44)*	**Valentin E. Voskresenskii** *Stably rational algebraic tori (p.46)*	**Jürgen Wolfart** *Riemann surfaces with many automorphisms (p.47)*
Sect.: **04**	D-MODULES/VECTOR BUNDLES I, *Chair: Sabir M. Gusein-Zade*		
MA 042	**Aleksandr G. Aleksandrov** *Gauß-Manin-Zusammenhang und logarithmische Picard-Fuchs-Systeme (p.49)*	**Vladimir Bavula** *The Simple Holonomic Modules over the Ring of Differential Operators on a Smooth Algebraic Surface (p.50)*	**Ushadevi N. Bhosle** *Moduli spaces of torsion-free sheaves on nodal curves (p.51)*
Sect.: **06**	GEOMETRIC TOPOLOGY, *Chair: Alexander N. Dranishnikov*		
H 112	**Dusan Repovs** *On Banach-Mazur compacta and their geometric properties (p.96)*	**Washington Mio** *On the geometric topology of homology manifolds (p.94)*	**Arkady Skopenkov** *A Generalization of The Haefliger-Weber Theorem on Embeddings of Manifolds in $\mathbb{R}^m$ (p.97)*
Sect.: **09**	STABILITY THEORY OF FDE, *Chair: Géza Makay*		
H 111	**Meirong Zhang** *The Fučik Spectrum and its Generalization for Asymptotically Positively Homogeneous Systems of Differential Equations (p.197)*	**Mark R. Liberzon** *Inners and Absolute Stability of Time-Lag Systems (p.181)*	
Sect.: **09**	DYNAMICAL PROPERTIES OF MECHANICAL SYSTEMS, *Chair: Dmitriy A. Chebanov*		
H 110	**Daniel Massart** *On the convexity of the action of a Lagrangian (p.182)*	**Natalia Valeryevna Tkachenko** *About some new solutions in a problem about motion of a body in a magnetic field (p.193)*	**Dmitriy A. Chebanov** *New exact solutions of the problem about motion of Lagrange's gyroscopes system (p.173)*
Sect.: **11**	SPECTRAL ANALYSIS I, *Chair: George D. Raikov*		
H 107	**Hermann Schulz-Baldes** *Quantum dynamics in presence of fractal spectra (p.245)*	**Michael Demuth** *Stable absolutely and singularly continuous spectra due to integral conditions (p.232)*	**George D. Raikov** *Eigenvalue asymptotics for the Dirac operator in strong constant magnetic fields (p.243)*
Sect.: **11**	THERMODYNAMCIS, HYDRODYNAMCIS, NON-LINEAR DYNAMICS I, *Chair: Volodymyr Kotlyarov*		
H 1029	**Xinyu He** *A probabilistic method for vortex motion in turbulent fluids (p.235)*	**Vladyslav V. Danishevs'kyy** *A New Asymptotic Technique for Nonlinear Dynamic Boundary Value Problems (p.231)*	**Volodymyr Kotlyarov** *Scattering problem for compatible ordinary differential equations and nonlinear Schrödinger equation on the semi-axis (p.238)*
Sect.: **13**	PATHS AND CYCLES, *Chair: Stephan Brandt*		
H 106	**Angeles Carmona** *On the Shortest Paths in a Distance Regular Graph (p.275)*	**Min Aung** *A lower bound for the circumference of a graph in terms of connectivity and minimum degree (p.283)*	**Henda Swart** *Generalised Measures of Distance in Graphs (p.286)*
Sect.: **14**	MATHEMATICAL ASPECTS OF COMPUTER SCIENCE III, *Chair: Clemens Gröpl*		
MA 043	**Barbu Gheorghe** *A method for Computer Generation of Random Vectors (p.289)*	**Sven Hartmann** *New results on the consistency of cardinality constraints (p.292)*	**Stefan Felsner** *The Linear-Extension-Diameter (p.291)*
Sect.: **15**	WAVELETS III (organized by Andreas Rathsfeld), *Chair: Pierre Gilles Lemarié-Rieusset*		
H 2033	**Siegfried Prößdorf** *Boundary element methods using multiwavelets (p.310)*	**Jörg Schult** *Stability condition for spline and multiwavelet collocation (p.312)*	**Marie Farge** *How to compute and model two-dimensional turbulent flows using wavelets?*

Short Communications: Friday, 21 August, 17:15–18:00

	17:15–17:30	17:30–17:45	17:45–18:00
Sect.: **03**	MODULAR FORMS, *Chair: Yoichi Uetake*		
MA 311	**Werner Hoffmann** *Spectral estimates for noncompact quotients (p.38)*	**Wladimir de Azevedo Pribitkin** *Bol's identity, fractional differentiation, and automorphic integrals (p.45)*	**Yoichi Uetake** *A weak resolvent representation of a scattering matrix for automorphic functions (p.46)*
Sect.: **04**	DEFORMATIONS AND DEGENERATIONS, *Chair: Aleksandr G. Aleksandrov*		
MA 042	**Kimio Miyajima** *CR construction of the semi-universal family of normal isolated singularities (p.57)*	**Eduardo S. Esteves** *Degenerations of Weierstrass points (p.52)*	**Diego Paccagnan** *Maximum number of cusps on algebraic plane curves and nodes on surfaces (p.59)*
Sect.: **06**	HYPERBOLIC 3-MANIFOLDS, *Chair: Nikolai Gusevskii*		
H 112	**Vitalii S. Makarov** *Regular maps and hyperbolic 3-manifolds (p.92)*	**Alexander D. Mednykh** *The volumes and isometries of Heegaard genus two hyperbolic three manifolds (p.93)*	**Andrei Yu. Vesnin** *On 3-manifolds with cyclic symmetry (p.100)*
Sect.: **09**	INVARIANT MEASURES AND RANDOM DYNAMICS II, *Chair: Gerhard Keller*		
H 111	**Raphael Albrecht** *Periodic data, intersection types, and conjugacy of profinite surface automorphisms (p.169)*	**Roman Hric** *Chaos and Topological Entropy in Onedimensional Dynamics (p.177)*	**Gerhard Keller** *Spectral stability of transfer operators under non-small perturbations (p.178)*
Sect.: **09**	MULTIFREQUENCE SYSTEMS AND INVARIANT TORI, *Chair: Anatolij M. Samoilenko*		
H 110	**Chong-Qing Cheng** *Aboundance of Lower Dimensional Invariant Tori in Hamiltonian Systems (p.174)*	**Miklós Rontó** *A numerical-analytic method for parametrized BVPs (p.188)*	**Anatolij M. Samoilenko** *Investigation of m-frequency oscillatory systems (p.189)*
Sect.: **11**	SPECTRAL ANALYSIS II, *Chair: Andrey V. Tchourkin*		
H 107	**Mark M. Malamud** *Inverse spectral analysis for first order systems (p.240)*	**Richard L. Hall** *Geometric spectral inversion (p.235)*	**Andrey V. Tchourkin** *Quantum stochastic model of gravitational wave interferometer detector (p.246)*
Sect.: **14**	MATHEMATICAL ASPECTS OF COMPUTER SCIENCE IV, *Chair: Stefan Felsner*		
MA 043	**Svetlana Asmuss** *On optimal algorithms of approximation under imprecise information (p.289)*	**Clemens Gröpl** *Random OBDDs (p.292)*	**Andrew Adamatzky** *On computation universality of excitable lattices*
Sect.: **15**	PARTIAL DIFFERENTIAL EQUATIONS III, *Chair: Jianping Zhu*		
H 2033	**P. Sobolevskii** *The "counter-example" to W. Littman's counter-example of L_p-energetical inequality for wave equation (p.314)*	**Ilja Schmelzer** *Grid Generation with Contravariant Geometry Description (p.311)*	
Sect.: **16**	INTERACTION OF NON-LINEAR WAVES, *Chair: Brian T. Hayes*		
H 106	**Motlatsi Pius Ramollo** *On the motion of a bore across a barrier (p.331)*	**Saadet Erbay** *Nonlinear interaction between long and short waves in a generalized elastic solid (p.323)*	**Brian T. Hayes** *Stress-Controlled and Velocity-Controlled Shear Waves in a Saturated Granular Medium (p.323)*

Poster Session: Friday, 21 August, 14:00–15:45

Sect.: **08**	ANALYSIS		
MA 144	**Jelena Ausekle** *Compactness of Operators Acting in the Lorentz and Orlicz Sequence Spaces (p.115)*	**Prodipeswar Bhattacharyya** *On the domain of normality in iteration theory (p.117)*	**Davor Butkovic** *Transformations of regular almost convergent sequences (p.119)*
	Rainis Haller *$M(r,s)$-inequality and reflexivity (p.128)*	**Katsunori Iwasaki** *Polyhedral harmonic functions and invariant theory (p.132)*	**Volodymyr M. Kadets** *The Lyapunov property of certain Banach spaces (p.133)*
	Shuichi Ohno *Topological structure of the space of composition operators on H^∞ (p.145)*	**Eve Oja** *Lifting approximation properties and ideals of compact and approximable operators (p.145)*	**Zdzislaw Otachel** *Cone Preorders in Measurable Function Spaces (p.145)*
	Märt Põldvere *On subspaces of Banach spaces having Phelps' uniqueness property (p.148)*	**Sen-Yen Shaw** *Convergence rates of regularized approximation processes (p.156)*	**Panagiotis D. Stratigos** *On general measure repleteness and completeness (p.158)*
Sect.: **13**	COMBINATORICS		
MA 144	**André Kündgen** *Turán problems for weighted graphs (p.280)*	**Frank H. Lutz** *Combinatorial manifolds with vertex-transitive automorphism group (p.281)*	**Slobodan K. Simić** *On graphs whose second largest eigenvalue does not exceed the golden section (p.284)*
	Indulis Strazdins *Universal classification of Boolean functions by the affine and linear groups (p.285)*	**Kai-Yao Xiang** *The Minimal Group with Graph and Its Permutation Elements (p.287)*	**Tomoyuki Yoshida** *Exponential formulas and Krull-Schmidt categories (p.288)*

Poster Session: Friday, 21 August, 16:15–18:00			
Sect.: **05**	DIFFERENTIAL GEOMETRY AND GLOBAL ANALYSIS		
MA 144	**Philip P. Boalch** *Symplectic geometry and isomonodromic deformations* (p.65)	**Ilia A. Bogaevski** *Singularities of convex hulls of closed hypersurfaces* (p.65)	**Cristina Draper** *Algebras related to Lie triple systems and applications to differential geometry* (p.67)
	Birte Feix *Hyperkähler metrics on cotangent bundles* (p.68)	**Lew Friedland** *Spectral geometry on almost Hermitian manifolds* (p.69)	**Vladimir A. Geyler** *Periodic point interactions on a Riemannian manifold* (p.251)
	Valery Konnov *Differential geometry of algebraic manifolds* (p.73)	**Alexei G. Kovalev** *Gluing theorems for anti-self-dual metrics* (p.73)	**Vasily Olegovich Manturov** *Vertical Atoms, Chord Diagrams, and Knots* (p.76)
	Stana Nikcevic *Curvature Homogeneous Spaces and Related Topics* (p.77)	**Marc Pauly** *Singular monopoles on compact 3-manifolds* (p.77)	**Vyacheslav D. Sedykh** *On classes of convex curves in projective spaces* (p.80)
	Mamuka Shubladze *The topology of hypersurface singularities with codimension one* (p.80)	**Peter Topalov** *A family of 3-integrable metrics* (p.83)	**Paweł Walczak** *Foliations, finitely generated groups, and pseudogroups of transformations of manifolds carry some dynamics* (p.83)
	Zuoling Zhou *The Hausdorff measures of Sierpinski gasket and Koch curve* (p.84)		

Special Activities

14:00 – 18:00 **H 104**

Mathematical Software

Chair: Winfried Neun, ZIB, Berlin, Germany

In this session, a broad spectrum of mathematical software including symbolic and numerical systems as well as interfaces and problem solutions will be presented. Details of the presentations can be found on the ICM'98 web server at URL http://elib.zib.de/ICM98/MathSoftware .

14:00 – 14:30 **John H. Maddocks** and **Randy C. Paffenroth,** EPF Lausanne, Switzerland
VBM

14:40 – 15:10 **Horst G. Zimmer et. al.,** Universität Saarbrücken, Germany
SIMATH

15:15 – 15:45 **Karim Belabas,** Université Paris–Sud, Orsay, France
PARI / GP

15:45 – 16:15 **Break**

16:15 – 16:45 **Christian Wieners et. al.,** Universität Stuttgart, Germany
UG

16:50 – 17:20 **Elias Deeba,** University of Houston–Downtown, Texas, USA
Learning Linear Algebra Using an Interactive Text

17:30 – 18:00 **David M. Gay** and **Robert Fourer,** Murray Hill, N.J., USA
AMPL

19:30 – 21:00 **H 104**

Events and policies: Effects on women in mathematics
Panel discussion organized by women from the Association for Women in Mathematics (AWM), the European Women in Mathematics (EWM), and the Committee on Women and Mathematics of the European Mathematical Society

21:15 – 22:00 **H 104**

Women and mathematics across cultures
Film, directed by Marjatta Näätänen (Helsinki, Finland) in collaboration with Bodil Branner (Lyngby, Denmark), Kari Hag (Trondheim, Norway), and Caroline Series (Warwick, UK)

Other Events

17:30 **Urania**

Klaus Becker, Klieve, Germany
From Stone–Sculpturing to Mathematics: Approximating the Inscribed Ball of Regular Polyhedra

18:00 **Urania**

Movie
N is a Number — a Portrait of Paul Erdős

19:30 **Urania**

Phil Davis, Brown University, Providence, USA
The Prospects of Mathematics in a Multimedia Civilization

20:00 **Urania**

VideoMath Festival
The "VideoMath Reel", the 24 best contributions to the VideoMath competition