

SECTIONS' PROGRAM

Section 1: Algebra, Algebraic, Complex and Differential Geometry and Topology

Friday, June 29th, 2007

09:00–10:45 Chairman: Vasile Brînzănescu

09:00–09:45	Andrei Căldăraru	The Mukai pairing on Hochschild homology
10:00–10:45	David Blair	Special Directions in Real and Complex Contact Geometry

C o f f e e

11:15–13:00 Chairman: Mircea Mustață

11:15–12:00	Alexandru Dimca	De Rham cohomology of hypersurface complements
12:15–13:00	Heinrich Matzat	Galois Theory of Differential Equations

L u n c h

Section 1A : Geometry

15:30–17:45 Chairman: Alexandru Dimca

15:30–16:15	Cristian Popescu	Special values of p -adic and global L -functions (A conjectural program in equivariant Iwasawa theory)
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C o f f e e

16:45–17:15	Leonardo Mihalcea	Generalized Gromov-Witten invariants on Grassmanians
17:15–17:45	Mitrofan Choban	Functionally determined properties of topological spaces

17:50–19:35 Chairman: **David Blair**

- 17:50–18:20 **Monica Aprodu** Harmonic maps on Riemannian polyhedra
18:20–18:50 **Mircea Puta** New algebraic point of view for the rigid body dynamics on $SO(3)$
18:55–19:25 **Cristian Costinescu** Axiomatic characterization of the (co)homology theories on spectra

Section 1B : Algebra

15:30–17:45 Chairman: **Toma Albu**

- 15:30–16:15 **Dorin Popescu** Stanley conjecture in small embedding dimension

Coffee

- 16:45–17:15 **Dumitru Botnaru** Semireflective product of two reflective subcategories
17:15–17:45 **Pantelimon Stănică** Counting balanced polynomials over finite field

17:50–19:35 Chairman: **Ciprian Bonciocat**

- 17:50–18:20 **Simion Breaz** From torsion-free groups to mixed groups
18:20–18:50 **Florin Nîchita** Coloured bialgebras and nonlinear equations
18:55–19:15 **Cosmin Pelea** Multialgebras universal algebras and identities
19:15–19:35 **Aleona Băbiy** On CH -quasigroups with maximum conditions

Saturday, June 30th, 2007

09:00–10:45 Chairman: **Dan Burghelea**

- 09:00–09:45 **Marian Aprodu** Syzygies and geometry of complex curves
10:00–10:45 **Matthias Kreck** Self-duals codes and 3-manifolds

Coffee

11:15–13:00 Chairman: **Matthias Kreck**

- 11:15–12:00 **Ștefan Papadima** Cohomology jumping loci, groups, and algebraic manifolds

12:15–13:00 **Dan Burghilea** Torsion as a function on the variety of representations

L u n c h

Section 1A : Geometry

15:30–17:45 Chairman: **Liviu Ornea**

15:30–16:15 **Stefano Marchiafava** Submanifolds of (para-)quaternionic manifolds

C o f f e e

16:45–17:15 **Cornelia Bejan** Manifolds of quasi-constant sectional curvature

17:15–17:45 **Adriana Turtoi** About the spin structures on the generalized twistor spaces

17:50–19:35 Chairman: **Ştefan Papadima**

17:50–18:20 **Anca Macinic** Cohomology jumping loci and formality properties of nilpotent groups

18:20–18:50 **Costin Vîlcu** Every point is critical

18:55–19:25 **Ion Albu** Differential geometry with fractional differentiated Lagrangian function

Section 1B : Algebra

15:30–17:30 Chairman: **Dorin Popescu**

15:30–16:15 **Toma Albu** Subdirect irreducibility and Krull dimension in rings, modules and lattices

C o f f e e

16:45–17:30 **Peter Roquette** Artin's reciprocity law and Hasse's local-global principle

17:50–19:35 Chairman: **Mefodie Ratsa**

17:50–18:20	Cristina Ballantine	Ramanujan graphs and representation theory of p -adic groups
18:20–18:50	Daniel Mondoc	Models of exceptional compact simple Kantor triple systems
18:55–19:15	Cosmin Roman	On Baer and quasi-Baer properties for modules
19:15–19:35	Liubomir Chiriac	On some generalizations of commutativity in topological groupoids

Monday, July 2nd, 2007

09:00–10:45 Chairman: **Paltin Ionescu**

09:00–09:45	Mircea Mustața	Invariants of singularities in positive characteristic
10:00–10:45	Henri Moscovici	Spectral spaces and their characteristic classes

Coffee

11:15–13:00 Chairman: **Henri Moscovici**

11:15–12:00	Tudor Rațiu	Convexity in symplectic geometry
12:15–13:00	Samuel Patterson	Gauss sums and their generalizations

Lunch

Section 1A : Geometry

15:30–17:45 Chairman: **Nicolae Manolache**

15:30–16:15	Edwin Beggs	Star structures and noncommutative Riemannian geometry
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Coffee

16:45–17:15	Marian Anton	Homological symbols and a vanishing conjecture
17:15–17:45	Răzvan Lițcanu	Arithmetic properties of differential operators on algebraic curves

17:50–19:35 Chairman: **Radu Pantilie**

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|-------------|----------------------------|---|
| 17:50–18:20 | Nicolae Anghel | The spectrum of spherical Dirac-type operators |
| 18:20–18:50 | Daniel Matei | Bestvina-Brady groups and arrangements of hypersurfaces |
| 18:55–19:15 | Cătălin Ciupală | $2\text{-}\rho$ derivations on a ρ -commutative algebra and applications to the quaternionic algebra |
| 19:15–19:35 | Laurențiu Calmuțchi | On Perfect compactifications of T_0 -spaces |

Section 1B : Algebra

15:30–17:45 Chairman: **Preda Mihăilescu**

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|-------------|-----------------------|--|
| 15:30–16:15 | Gigel Militaru | Factorization problems for finite groups |
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Coffee

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|-------------|--------------------------|---|
| 16:45–17:15 | Ciprian Bonciocat | Prime numbers and irreducible polynomials |
| 17:15–17:45 | Adriana Nenciu | Isomorphic character tables of p-groups |

17:50–19:35 Chairman: **Gigel Militaru**

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|-------------|--------------------------|--|
| 17:50–18:20 | Mefodie Ratsa | Algorithmic unsolvability of a problem of expressibility in the Gödel-Löb logic of provability |
| 18:20–18:50 | Marian Deaconescu | Groups and automorphisms |
| 18:55–19:15 | Codruța Chiș | Criteria on the orders of the centralizers of the elements in a finite group |
| 19:15–19:35 | Natalia Bobeică | Paramedial topological groupoids |

Tuesday, July 3rd, 2007

09:00–10:45 Chairman: **Florian Pop**

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|-------------|------------------------|---|
| 09:00–09:45 | Alexandru Buium | Relations among modular points on elliptic curves |
| 10:00–10:45 | Radu Pantilie | Harmonic morphisms between Weyl spaces |

Coffee

11:15–13:00 Chairman: **Alexandru Buium**

11:15–12:00 **Maurice Mignotte** Pure powers among Fibonacci numbers
12:15–13:00 **Paltin Ionescu** Manifolds covered by lines

Lunch

Section 1A : Geometry

15:30–17:45 Chairman: **Tudor Rațiu**

15:30–16:15 **Liviu Ornea** A CR-embedding for Sasakian manifolds

Coffee

16:45–17:15 **Ovidiu Călin** Heisenberg geometry
17:15–17:45 **Oana Drăgulete** The stratification of the orbit space of proper groupoids

17:50–19:35 Chairman: **Mitrofan Ciobanu**

17:50–18:20 **Liviu Popescu** The geometry of Lie algebroids and its applications
18:20–18:50 **Iulia Hirică** Algebraic operators provided from differential geometry
18:55–19:15 **Ion Șandru** Dirac fermions in curved space: spinorial invariance, densities and conservation laws
19:15–19:35 **Florin Damian** Geometry and topology of low dimensional hyperbolic manifolds from the point of view of discrete geometry

Section 1B : Algebra

15:30–17:45 Chairman: **Maurice Mignotte**

15:30–16:15 **Preda Mihăilescu** Primality proving, theoretical and practical

Coffee

16:45–17:15 **Mihai Cipu** Gröbner bases and Pell equations
17:15–17:45 **Biliana Krsteska** Generalized fuzzy mappings

17:50–19:35 Chairman: **Mihai Cipu**

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|-------------|------------------------|--|
| 17:50–18:20 | Dan Ciubotaru | Spherical unitary representations for reductive groups |
| 18:20–18:50 | Elena Cojuhari | On general theory of skew polynomial rings |
| 18:55–19:15 | Mihai Chiş | On the autocommutator subgroup of a finite group |
| 19:15–19:35 | Natalia Lupaşco | On endomorphism semigroups of direct products of commutative Moufang loops |

Wednesday, July 4th, 2007

09:00–10:45 Chairman: **Şerban Basarab**

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|-------------|--------------------------|---|
| 09:00–09:45 | Mircea Craioveanu | On the dynamics and geometry of an autonomous underwater vehicle with a fixed control authority |
| 10:00–10:45 | Florian Pop | Large fields and inverse Galois theory |

C o f f e e

11:15–13:00 Chairman: **Mircea Craioveanu**

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|-------------|-----------------------|---|
| 11:15–12:00 | Şerban Basarab | Co-Galois theory: a topological group theoretic approach |
| 12:15–13:00 | Adrian Diaconu | Moment integrals for $GL(m) \times GL(n)$: toward convexity breaking |

L u n c h

Section 1A : Geometry

15:30–17:45 Chairman: **Marian Aprodu**

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|-------------|---------------------|--|
| 15:30–16:15 | Steriu Ianuş | Harmonic maps and Riemannian submersions from quaternionic Kaehler manifolds |
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C o f f e e

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|-------------|--------------------|--|
| 16:45–17:15 | Daniel Naie | The irregularity of cyclic multiple planes after Zariski |
|-------------|--------------------|--|

17:15–17:45 **Dorin Cheptea** Universal quantum invariant for 3-dimensional homology cylinders

17:50–19:25 Chairman: **Steriu Ianuș**

17:50–18:20 **Cornel Pinte**a The size of the critical set of some differentiable mappings

18:20–18:50 **Vladimir Bălan** CMC surfaces in Euclidian and Finsler spaces

18:55–19:25 **Gabriel Pripoae** Riemannian metrics associated to vector fields

Section 1B : Algebra

15:30–17:45 Chairman: **Dumitru Botnaru**

15:30–16:15 **Sergiu Rudeanu** Filters, localizations and fractions in algebra of logic

Coffee

16:45–17:15 **Nicolae Sandu** Free Moufang loops and alternative algebras

17:15–17:45 **Vasile Ursu** Product of quasivarieties of algebraic systems

17:50–19:35 Chairman: **Sergiu Rudeanu**

17:50–18:20 **Afrodita Iorgulescu** A new class of residuated lattices

18:20–18:50 **Sebastian Burciu** Quantum doubles for a certain class of rank two pointed Hopf algebras

18:55–19:15 **Petru Scifos** On l -ideals of order lattice loop

19:15–19:35 **Alexandru Covalschi** Identities of nilpotent A -loops

Section 2: Real and Complex Analysis, Potential Theory

Friday, June 29th, 2007

09:00–10:45 Chairman: **Cabiria Andreian Cazacu**

- 09:00–09:45 **Matti Vourinen** Conformal geometry and quasiregular mappings
10:00–10:45 **Anatoly Golberg** Distortion of moduli of the ring domains in space

Coffee

11:15–13:00 Chairman: **Nicu Boboc**

- 11:15–12:00 **Chung-Chun Yang** Value distribution theory related to number theory
12:15–13:00 **Grigore Sălăgean** Further properties of β -Pascu convex functions of order α
13:00–13:30 **Petru T. Mocanu** Briot-Bouquet differential subordinations and sandwich theorems

Lunch

15:30–17:35 Chairman: **Raimo Näkki**

- 15:30–16:15 **Mihai Cristea** Local homeomorphisms having local ACL^n inverses

Coffee

- 16:45–17:15 **Gheorghe Bucur** Variational methods in Dirichlet spaces
17:15–17:35 **Liliana Popa** A Dirichlet form on a standard H -Cone

17:40–18:40 Chairman: **Ilpo Laine**

- 17:40–18:00 **Corneliu Udrea** Nonlinear resolvents: supermedian functions
18:00–18:20 **Eugen Popa** The semi-dynamical system associated with a generator
18:20–18:40 **Marian Panțiruc** Fourier transform of the "heat kernel" on the Heisenberg group

Saturday, June 30th, 2007

09:00–10:45 Chairman: **Matti Vuorinen**

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|-------------|------------------------|---|
| 09:00–09:45 | Heinrich Begehr | Polyharmonic Dirichlet problems |
| 10:00–10:45 | Ilpo Laine | Difference counterpart of Nevanlinna theory |

Coffee

11:15–13:00 Chairman: **Chung-Chun Yang**

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|-------------|----------------------|---|
| 11:15–12:00 | Dorin Ghişă | The geometry of Blaschke product mappings |
| 12:15–13:00 | Gabriela Kohr | Asymptotically starlike and asymptotically spirallike mappings in several complex variables |

Lunch

15:30–17:35 Chairman: **Heinrich Begehr**

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|-------------|--------------------|--|
| 15:30–16:15 | Raimo Näkki | Homogeneous sets and quasiconformal mappings |
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Coffee

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|-------------|--------------------------------|---|
| 16:45–17:15 | Cabiria Andreian Cazacu | Lim inf Lipschitz and bi-Lipschitz conditions for direct products, skew products and other mappings |
| 17:15–17:35 | Marcelina Mocanu | Maximal operators in Olicz spaces on metric measure spaces |

17:40–19:00 Chairman: **Miodrag Mateljević**

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|-------------|-------------------------|---|
| 17:40–18:00 | Victoria Stanciu | Normal families of ring FMO_{loc} quasiregular mappings |
| 18:00–18:20 | Anca Andrei | Comments on the behavior of quasiconformal mappings in Ahlfors regular spaces |
| 18:20–18:40 | Serafima Cerchez | Direct products of L-BLD homeomorphisms on direct product spaces |
| 18:40–19:00 | Dan Dogaru | Two theorems for ψ -modulus |

Monday, July 2nd, 2007

09:00–10:45 Chairman: **Constantin Niculescu**

- 09:00–09:45 **Marco Abate** A unified approach to index theorems for holomorphic maps and foliations
- 10:00–10:45 **Mariusz Urbanski** Real analyticity of Hausdorff dimension for higher dimensional graph directed Markov systems

Coffee

11:15–13:00 Chairman: **Mihnea Colţoiu**

- 11:15–12:00 **Peter Dovbush** On normal and non-normal holomorphic functions on complex Banach manifolds
- 12:15–13:00 **Mihai Tibar** Polynomials and vanishing cycles

Lunch

15:30–17:35 Chairman: **Marco Abate**

- 15:30–16:15 **Eugen Mihăilescu** Metric properties and dynamics for conformal non-invertible maps

Coffee

- 16:45–17:05 **Ionel Roventa** The dynamics of the rational maps
- 17:05–17:35 **Mihai Pascu** Domain convergence of reflecting Brownian motion

17:40–19:05 Chairman: **Gheorghe Bucur**

- 17:40–18:10 **Anca Bonciocat** Some geometric aspects of discrete metric spaces and metric graphs
- 18:15–18:45 **Radu Gologan** Two results in combinatorial geometry based on classical theorems in real analysis
- 18:45–19:05 **Aurelia Florea** Hermite-Hadamard inequality. New results

Tuesday, July 3rd, 2007

09:00–10:45 Chairman: **Tadeusz Iwaniec**

- 09:00–10:00 **Bogdan Bojarski** Primary solutions to general Beltrami equations
10:15–10:45 **Mohamed Sifi** On Besov-Dunkl spaces

Coffee

11:15–12:45 Chairman: **Mariusz Urbanski**

- 11:15–12:00 **Miodrag Mateljević** Distortion of harmonic type mappings in the space

Lunch

15:30–17:15 Chairman: **Bogdan Bojarski**

- 15:30–16:15 **Tadeusz Iwaniec** Invitation to n -harmonic hyperelasticity. The art of intergration of nonlinear forms and free langrangian

Coffee

- 16:45–17:15 **Natalia Gashitoi** On the existence of K-admissible limits of holomorphic mappings

17:20–18:50 Chairman: **Mohamed Sifi**

- 17:20–17:50 **Teodor Bulboacă** Subordination and superordination preserving convex integral operators
17:50–18:10 **Gheorghe Oroş** Strong differential subordination
18:10–18:30 **Nicolae R. Pascu** Some extensions of the Schwarz lemma
18:30–18:50 **Daniel Breaz** Certain integral operators on the classes $M(\beta_i)$ and $N(\beta_i)$

Wednesday, July 4th, 2007

09:00–10:00 Chairman: **Radu Gologan**

- 09:00–09:30 **Romi Shamoyan** Some remarks of the action of the operator of polarization
09:30–10:00 **Emil Saucan** Triangulations, quasiregular mappings and differential geometry

10:05–12:55 Chairman: **Petru T. Mocanu**

- 10:05–10:25 **Anca Croitoru** A Gould type set valued integral
10:25–10:45 **Ionel Țevy** The generalized Riemann integral

Coffee

- 11:15–11:35 **Radu Vilceanu** Application of Dirichlet L -series in the calculus of integrals
11:35–12:55 **Ileana Bucur** On the Helly and Bray theorem

Section 3: Ordinary and Partial Differential Equations, Variational Methods, Optimal Control and Mathematical Physics

Friday, June 29th, 2007

09:00–10:45 Chairman: **Toader Moroza**

- 09:00–09:45 **Vicenzo Cappasso** On the stochastic modelling of interacting populations
10:00–10:45 **Mimo Iannelli** Growth and diffusion of a population in a fragmented habitat

Coffee

11:15–13:00 Chairman: **Vincentiu Rădulescu**

- 11:15–12:00 **Marius Mitrea** The regularity of Green potentials in non-smooth domains
12:15–13:00 **Gabriela Marinoschi** Well-posedness for a degenerate diffusion equation with a non-linear operator

Lunch

15:30–19:00 Chairman: **Dan Tiba**

- 15:30–15:50 **Irina Dmitrieva** The constructive solution of the n -dimensional operator equations' systems and its application in classical Maxwell theory
15:55–16:15 **Andrei Perjan** Singularly perturbed Cauchy problem for abstract system of linear equations in Hilbert spaces

Coffee

- 16:45–17:15 **Kumar Sanjeev** Mathematical model of unsteady-state condition on oxygen diffusion through biological Floc particles
17:20–17:50 **Vasile Postolică** A coincidence result between the sets of approximate efficient points and Choquet boundaries in ordered locally convex spaces

17:55–18:25 **Călin Iurie** Invariant conditions for the existence of a center for a class of cubic differential systems

Saturday, June 30th, 2007

09:00–10:45 Chairman: **Gheorghe Nenciu**

09:00–09:45 **Horia Cornean** Adiabatically switched-on electrical bias in continuous system and the Landauer-Büttiker formula

10:00–10:45 **Pavel Exner** Inequalities for means of chords and related isoperimetric problems

Coffee

11:15–13:00 Chairman: **Pavel Exner**

11:15–12:00 **Ovidiu Costin** TBA

12:15–13:00 **Otto Liess** Decay estimates for Fourier transforms of densities defined on surfaces

Lunch

15:30–18:50 Chairman: **Horia Cornean**

15:45–16:15 **Rodica Luca-Tudorache** Time periodic solutions to a nonlinear second-order partial differential problem

Coffee

16:45–17:15 **Ioana Dragomirescu** Spectral methods in hydrodynamic stability

17:20–17:40 **Boris Zachariev** New status of spectral theory for Schroedinger equation in inverse problem approach

17:45–18:15 **Dumitru Opreș** Fractional Euler-Lagrange equations for Lie algebroids

18:20–18:40 **Olivia Bundău** Hopf bifurcation for some economic models with tax evasion and delay

Monday, July 2nd, 2007

10:00–10:45 Chairman: **Viorel Barbu**

10:00–10:45 **Daniel Tătaru** Blow up for some critical semilinear wave equation

11:15–12:55 Chairman: **Marius Mitrea**

11:15–11:45 **Nicolae Jitarășu** Asymptotic behavior of solutions of elliptic equations in the neighborhood of boundary and the boundary problems with singular boundary conditions

11:50–12:20 **Ovidiu Călin** A geometric method for computing heat kernels for Hermite-type operators

12:25–12:55 **Ovidiu Ilie Șandru** Differential operators that divide the wave operator. Application in the mathematical physics

L u n c h

15:30–18:25 Chairman: **Otto Liess**

15:30–16:00 **Aurelian Cernea** The maximum principle for constrained differential inclusions with delay

16:05–16:25 **Valeriu Guțu** Limit sets of weakly contracting relations with eventual condensation

C o f f e e

16:45–17:15 **Narcisa Apreutesei** Fredholm property of infinite dimensional discrete operators

17:20–17:50 **Ludovic Dan Lemle** C_0 -semigroups on the dual of a Banach space

17:55–18:25 **Vasile Glăvan** On the Favard-Floquet theory

18:30–18:50 **Raluca-Mihaela Georgescu** Equilibria of linear dynamical systems: analytical and algebraic approach

Tuesday, July 3rd, 2007

09:00–10:05 Chairman: **Sergiu Aizicovici**

- 09:00–09:30 **Jenică Crînganu** Existence results for a class of nonlinear equations involving a duality mapping
- 09:35–10:05 **Olivian Simionescu-Panait** Spectral problems in guided waves propagation in piezoelectric crystals subject to initial fields

Coffee

11:15–13:10 Chairman: **George Dincă**

- 11:15–12:00 **Jean Mawhin** Boundary value problems for nonlinear perturbations of singular or bounded ϕ -Laplacians
- 12:05–12:35 **Cristian Bereanu** Some applications of Mawhin continuation theorem
- 12:40–13:10 **Petru Jebelean** Ordinary p -Laplacian systems with potential boundary conditions

Lunch

15:45–17:40 Chairman: **Jean Mawhin**

- 15:45–16:15 **Marius Ghergu** Singular elliptic systems of Gierer-Meinhardt type

Coffee

- 16:45–17:15 **Viorel Catană** M-hypoelliptic pseudodifferential operators on $L^p(\mathbb{R}^n)$
- 17:20–17:40 **Florin Isaia** Generalized Pohozaev identities and non-existence results for p -Laplacian and $p(x)$ -Laplacian
- 17:45–18:15 **Irina Meghea** On a theorem of variational calculus
- 18:20–18:50 **Codruța Stoica** Trichotomy in Infinite Dimensional Spaces

Wednesday, July 4th, 2007

09:00–10:45 Chairman: **Constantin Vârsan**

- 09:00–09:45 **Nicolae Pavel** Range conditions in optimization and optimal control

10:00–10:45 **Sergiu Aizicovici** On a class of nonlinear boundary value problems

Coffee

11:15–13:00 Chairman: **Gabriela Marinoschi**

11:15–12:00 **Toader Moroza** Exponential stability of discrete time linear equations defined by positive operators on ordered Hilbert spaces

12:30–13:00 **Constantin Udriște** Multi-time controllability obserbability and Bang-Bang principle

Lunch

15:30–17:40 Chairman: **Radu Purice**

15:30–16:00 **Valeriu Prepelită** Controllability criteria for a class of multidimensional hybrid systems

Coffee

16:45–17:15 **Vasile Staicu** Multiple solutions for super linear p -Laplacian Neumann problems

17:20–17:40 **Radu Moleriu** The connection between the stability of the equation and the operator norm in the stochastic case

17:45–18:05 **Cristina Nartea** Computation of approximate inertial manifolds for a prey-predator model

Section 4: Functional Analysis, Operator Theory and Numerical Analysis

Friday, June 29th, 2007

09:00–10:45 Chairman: **Petru Cojuhari**

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|-------------|--------------------------------|--|
| 09:00–09:45 | Alexander Ya. Helemskii | Semi-Ruan one-sided modules, the extreme flatness and the Arveson-Wittstock Theorem |
| 10:00–10:45 | George Isac | Quasi-boundedness, fixed-points, eigenvalues for nonlinear mappings and complementary problems |

Coffee

11:15–13:00 Chairman: **George Isac**

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|-------------|--------------------|---|
| 11:15–12:00 | Ioan A. Rus | Special fixed point structures |
| 12:15–13:00 | Ismat Beg | Strong convergence theorems for common fixed points of Banach operator pair |

Lunch

15:30–17:45 Chairman: **Ioan A. Rus**

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|-------------|---------------------------|--|
| 15:30–16:15 | Lori Badea | Additive and multiplicative Schwarz methods for inequalities with contraction operators |
| 16:45–17:15 | Nicolae Dăneț | Some applications of interval analysis in functional analysis |
| 17:15–17:45 | George Kostopoulos | General algorithm for the development of detailed algorithms for the extraction of integer roots |

17:50–19:35 Chairman: **Călin Ambrozie**

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| 17:50–18:20 | Florentina Tone | Long-time stability of the implicit Euler scheme for the 2d Navier-Stokes equations |
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18:20–18:50	Adrian Diaconu	On the approximation of equations' solutions through methods that use divided differences
18:55–19:15	Ivan Secrieru	The spectral properties of operators in approximate schemes
19:15–19:35	Marius Apetrii	A dual generalization of monotone mapping

Saturday, June 30th, 2007

09:00–10:45 Chairman: **Aurelian Gheondea**

09:00–09:45	Călin Ioan Gheorghiu	Spectral methods for non-standard eigenvalue problems
10:00–10:45	Petru Cojuhari	Spectral analysis of some perturbed block Toeplitz operators

C o f f e e

11:15–13:00 Chairman: **Alexander Ya. Helemskii**

11:15–12:00	Dan Pascali	On semilinear spectral theory
12:15–13:00	Nicolae Suci	Analytic functions of ρ -contractions

L u n c h

15:30–17:45 Chairman: **Mihai Şabac**

15:30–16:15	Dumitru Gaşpar	Abstract reproducing kernel structures and general dilation results
16:45–17:15	Pastorel Gaşpar	On gramian (co)-isometric extensions
17:15–17:45	Aurelian Crăciunescu	Factorization properties of ρ -contractions

17:50–19:55 Chairman: **Dumitru Gaşpar**

17:50–18:20	Dan Popovici	On the structure of γ contractions
18:20–18:50	Laurian Suci	Classes of operators similar to partial isometries and generalized inverses
18:55–19:15	Adina Juratoni	P-spectral and semispectral representations of function algebras
19:15–19:35	Sorin Nădăban	Representations of quotient Hilbert spaces
19:35–19:55	Flavius Pater	A representation theorem for $*$ -semigroups

Monday, July 2nd, 2007

09:00–10:45 Chairman: Viorel Nițică

- 09:00–09:45 **Marius Dadarlat** Bundles, operator algebras and K-theory
10:00–10:45 **Florin Rădulescu** Quantum dynamics in the von Neumann algebras associated with some discrete groups

Coffee

11:15–13:00 Chairman: Marius Dardalat

- 11:15–12:00 **Bebe Prunaru** Toeplitz operators associated to commuting row contractions
12:15–13:00 **Maria Fragouloupoulou** Construction of unbounded $*$ -representations in terms of "unbounded" C^* -seminorms

Lunch

15:30–17:45 Chairman: Călin Ioan Gheorghiu

- 15:30–16:15 **Liliana Pavel** On the center of compact hypergroup algebras
16:45–17:15 **Mihai Popa** On c -free probability with amalgamation
17:15–17:45 **Maria Joița** Extremal completely n -positive linear maps between C^* -algebras

17:50–19:35 Chairman: Nicolae Suciu

- 17:50–18:20 **Ilie Valușescu** On periodically correlated processes in complete correlated actions
18:20–18:50 **Radu Păltănea** Asymptotic expansion for Durrmeyer operators in complex domains
18:55–19:15 **Elena Pelican** The bivariate log-skew-normal distribution. Numerical aspects
19:15–19:35 **Cezar Lupu** Some remarks on an elementary inequality equivalent to Riemann hypothesis
19:35–19:55 **Valeriu Anisiu** Porosity in Banach spaces

Tuesday, July 3rd, 2007

09:00–10:45 Chairman: **Dan Timotin**

- 09:00–09:45 **Florian-Horia Vasilescu** Unbounded subnormal operators
- 10:00–10:45 **Aurelian Gheondea** When are products of two normal operators normal?

Coffee

11:15–13:00 Chairman: **Camil Muscalu**

- 11:15–12:00 **Călin Ambrozie** A result on positive matrix completions
- 12:15–13:00 **Dan Timotin** The eigenvalues of a sum of selfadjoint operators

Lunch

15:30–17:45 Chairman: **Florian-Horia Vasilescu**

- 15:30–16:15 **Octav Olteanu** Some unexpected problems of Moment Problem
- 16:45–17:15 **Luminița Lemnete** Moment problems
- 17:15–17:45 **Dana Bereanu** Some perturbation results for quotient morphisms

17:50–19:35 Chairman: **Ismat Beg**

- 17:50–18:20 **Cristina Cismasiu** A quantitative estimation of an asymptotic representation for linear positive operators
- 18:20–18:50 **Carmen Pârvulescu** On a property of quasicompact operators
- 18:55–19:15 **Ligia Adriana Sporiș** On some extension and separations results in locally convex cones
- 19:15–19:35 **Cristina Stamate** Duality for vector optimization problems

Wednesday, July 4th, 2007

09:00–10:45 Chairman: **Nicolae Popa**

- 09:00–09:45 **Camil Muscalu** Calderon commutators and the Cauchy integral on Lipschitz curves, revisited

10:00–10:45 **Viorel Nițică** Rigidity of higher rank abelian cocycles with values in diffeomorphism groups

Coffee

11:15–13:00 Chairman: **Florin Rădulescu**

11:15–12:00 **Andrei Török** Stability of mixing and rapid mixing for hyperbolic flows

12:15–13:00 **Mihai Șabac** Commuting systems of bounded operators, factorization, and spectral correspondence

Lunch

15:30–17:45 Chairman: **Liliana Pavel**

15:30–16:15 **Nicolae Popa** Schur multipliers between Banach spaces of matrices

16:45–17:15 **Liviu Marcoci** A class of unbounded operators and Schur multipliers for them

17:15–17:45 **Olga Martin** Splitting numerical method for the solution of one-dimensional transport equation

17:50–19:35 Chairman: **Andrei Török**

17:50–18:20 **Lemnaouar Zedam** A fuzzy version of Hahn-Banach theorem

18:20–18:50 **Rodica-Mihaela Dăneț** Fixed -point theorems for some families of multimaps

18:55–19:15 **Andrei Vernescu** On some new results in the summation of numerical series

Section 5: Probability and Mathematical Statistics

Friday, June 29th, 2007

09:00–10:45 Chairman: **Marius Iosifescu**

09:00–09:45 **Alexandra Bellow** From Riemann to Lebesgue by a.s averaging
10:00–10:45 **Nicolae Dinculeanu** Summability criterion for the stochastic integral

Coffee

11:15–12:00 Chairman: **Alexandra Bellow**

11:15–12:00 **Peter Jagers** The path to extinction

Lunch

15:30–17:45 Chairman: **Gheorghe Mişcoi**

15:30–16:00 **Luiza Badin** Nonparametric efficiency analysis: recent developments
16:00–16:30 **Costel Balcău** On maxentropic reconstruction method and applications

Coffee

16:45–17:15 **Diana Stanciu** On topological properties of the solution set for a class of variational inequalities
17:15–17:45 **Nicoleta Breaz** Spline models in fitting and smoothing problems

Saturday, June 30th, 2007

09:00–12:00 Chairman: **Peter Jagers**

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|-------------|-----------------------|---|
| 09:00–09:45 | Pierre Liardet | Dynamical processes behind number systems and related digital sequences |
| 10:00–10:45 | Cor Kraaikamp | Metric properties of Denjoy's canonical continued fraction expansion |

Coffee

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|-------------|--------------------------|--|
| 11:15–12:00 | Ulrich Herkenrath | Random systems with complete connections, iterated function systems and autoregressive time series |
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Lunch

15:30–16:15 Chairman: **Pierre Liardet**

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|-------------|------------------------|---|
| 15:30–16:15 | Gheorghe Mişcoi | Generalized models in queueing analysis |
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Coffee

16:45–17:55 Chairman: **Vasile Preda**

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|-------------|-----------------------|---|
| 16:45–16:55 | Olga Benderski | Congestions in priority queueing systems |
| 16:55–17:15 | Olesia Groza | Performance characteristics of the queueing models in network technologies |
| 17:20–17:35 | Sant Mishra | Computational approach to cost analysis of renewal model in clocked queueing network |
| 17:35–17:55 | Daniel Ciuiu | Solving nonlinear systems of equations and nonlinear systems of differential equations by the Monte Carlo method using queueing networks and games theory |

Monday, July 2nd, 2007

09:00–10:45 Chairman: **Cor Kraaikamp**

- 09:00–09:45 **Bogdan Iftimie** An iterative stochastic construction for a solution of some Navier-Stokes equations
- 10:00–10:45 **Cristian Preda** A new method of estimation the distribution of one and two-dimensional scan statistics

Coffee

11:15–12:05 Chairman: **Bogdan Iftimie**

- 11:15–11:45 **Doru Constantin** The variants of the FastICA algorithm for noisy data by using kurtosis and negentropy
- 11:45–12:05 **Daniela Ijacu** Differential games with stochastic perturbation associated with non adapted solutions

Lunch

15:30–16:30 Chairman: **George Haiman**

- 15:30–16:00 **Roxana Ciumara** On empirical Bayes estimators under some types of loss function
- 16:00–16:30 **Tiberiu Postelnicu** Connections between possibility theory and mathematical statistics

Coffee

16:45–17:45 Chairman: **Cristian Preda**

- 16:45–16:55 **Alexandra Colojoară** On the Wold decomposition of some periodical stochastic processes
- 17:15–17:45 **Ana-Maria Staicu** Small sample inference for cohort and case control studies

Tuesday, July 3rd, 2007

Special Session : Advanced Mathematical Methods for Finance

Chairman: **Constantin Varsan**

- 09:00–09:45 **Lucia Caramellino** Large deviations estimates of the crossing probability for small time and applications to Monte Carlo Methods in finance
- 10:00–10:45 **Vlad Bally** Malliavin calculus for locally smooth law and applications to jump type diffusions

Coffee

- 11:15–12:00 **Florin Rădulescu** Notes on free probability
- 12:15–13:00 **Mircea Nica** Option evaluation formulas for some classes of Levy processes
- 13:15–14:00 **Cristian Sima** *t.b.a.*

Lunch

- 15:30–16:00 **Marinela Marinescu** A global variational principle associated with gradient stochastic control systems
- 16:00–16:30 **Pavel Farcaș** Istochastic models in risk evaluation for financial portofolio options

Coffee

- 17:00–17:30 **Oana Mocioalcă** Regularity of solutions of the heat equation driven by irregular Gaussian processes
- 17:40–18:00 **Nadia Bonchi s** Dependence of the optimal capital stock and consumption evolution on the consumers growth rate in the framework of Ramsey model on finite horizon
- 18:00–18:20 **Cristinca Fulga** Multistage portofolio optimization

Section 6: Mechanics and Applied Mathematics

Friday, June 29th, 2007

09:00–10:45 Chairwoman: **Sanda Cleja-Țigoiu**

- 09:00–09:45 **Nicolaie D. Cristescu** Dynamic plasticity
10:00–10:45 **Cristian Teodosiu** Dislocation-Based Constitutive Modelling at Large Plastic Strains

Coffee

11:15–13:00 Chairman: **Nicolaie D. Cristescu**

- 11:15–12:00 **Gerard A. Maugin** From Mathematical Physics to Mechanical Engineering
12:15–13:00 **Dorin Ieșan** Thermal stresses in inhomogeneous porous elastic cylinders

Lunch

15:30–16:00 Chairman: **Gerard A. Maugin**

- 15:30–16:00 **Sanda Cleja-Țigoiu** Finite elastoplasticity with continuously distributed dislocations

Coffee

16:30–18:30 Chairpersons: **Veturia Chiroiu and Cristian Teodosiu**

- 16:30–17:00 **Oana Cazacu** On modeling plastic anisotropy and strength differential effects in hexagonal metals
17:00–17:30 **Marius Cocou** A variational analysis of a contact interaction problem in viscoelasticity
17:30–18:00 **Cristian Făciu** Impact-induced adiabatic wave structure in phase transforming materials

18:00–18:30 **Liviu Marin** A boundary element iterative algorithm for the temperature reconstruction in piecewise smooth domains from incomplete boundary data

Saturday, June 30th, 2007

09:00–10:45 Chairman: **Horia I. Ene**

09:00–09:45 **H. T. Banks** Phenomenological to molecular modelling of hysteresis in viscoelastic polymers: elastomers to biotissue

10:00–10:45 **Doina Ciorănescu** Homogenization of constrained integral energies by the unfolding method

Coffee

11:15–13:00 Chairwoman: **Doina Ciorănescu**

11:15–12:00 **Florin Diacu** Saari's conjecture of the n -body problem

12:15–13:00 **Eugen Grebenikov** Singular elliptic systems of Gierer-Meinhardt type

Lunch

15:30–16:00 Chairman: **H. T. Banks**

15:30–16:00 **Dan Polişevschi** Homogenization of the thermal flows with first-order jump interfaces

Coffee

16:30–19:00 Chairpersons: **Ruxandra Stavre and Dan Polişevschi**

16:30–17:00 **Gelu Paşa** Stability results for multi-layer Hele-Shaw flow

17:00–17:30 **Claudia Timofte** Upscaling in diffusion problems in domains with semipermeable boundaries

17:30–18:00 **Romulus Militaru** On the modeling of the high Reynolds' number fluid flows by multiple scales method

18:00–18:30 **Teodor Groşan** Heat transfer in assymetric stagnation flow an a thin cylinder

18:30–19:00 **Mirela Kohr** Boundary integral equations for a three-dimensional Brinkman flow problem

Monday, July 2nd, 2007

09:00–10:45 Chairman: **Dorin Ieşan**

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|-------------|-----------------------|--|
| 09:00–09:45 | Mircea Sofonea | Recent advances in contact mechanics: modelling and variational analysis of the models |
| 10:00–10:45 | Meir Shillor | Mathematical models for material damage |

Coffee

11:15–13:15 Chairman: **Mircea Sofonea**

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|-------------|----------------------------|---|
| 11:15–12:00 | Ioan R. Ionescu | Compressible rigid-visco-plastic fluids: mathematical and numerical challenges |
| 12:15–12:45 | Delia Ionescu-Kruse | Variational derivation of the Camassa-Holm shallow water equation |
| 12:45–13:15 | Iuliana Oprea | Dynamics and bifurcation of waves in the electroconvection of nematic liquid crystals |

Lunch

15:30–16:15 Chairman: **Meir Shillor**

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|-------------|--------------------|------------------------------------|
| 15:30–16:15 | Izu Vaisman | Weak Hamiltonian dynamical systems |
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Coffee

16:30–18:30 Chairpersons: **Claudia Timofte and Ioan R. Ionescu**

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|-------------|-----------------------------|--|
| 16:30–17:00 | Gheorghe Barbu | The Bayesian approach in computer simulation of a system reliability |
| 17:00–17:30 | Florin Bobaru | Adaptive refinement in the peridynamics for multiscale material models |
| 17:30–18:00 | Adrian Carabineanu | A numerical method of $2D$ flow around a flapping airfoil |
| 18:00–18:30 | Mira-Cristina Anisiu | $3D$ Inverse problem of dynamics |

Tuesday, July 3rd, 2007

09:00–11:00 Chairpersons: **Florin Diacu and Eugen Grebenikov**

09:00–09:30	Tiberiu Oproiu	On the motion of artificial satellites in a resisting medium
09:30–10:00	Mihai Popescu	Sufficient optimality condition in orbital rendez-vous problems
10:00–10:30	Rodica Roman	Close binary stellar systems. Consideration on the constants of stellar structure
10:30–11:00	Mihai Bărbosu	An inequality in the phase space of the planar three body problem

Coffee

11:15–13:05 Chairwoman: **Oana Cazacu**

11:15–11:45	Vasile Mioc	Solar prominence models tackled via the theory of dynamical systems
11:45–12:15	George Purcaru	Are the earthquakes predictable?
12:15–12:45	Veturia Chiroiu	Deformation of carbon nanotubes by surface van der Waals forces
12:45–13:05	Mihaela Arsene	Some theoretical aspects of the inverse problem in seismic modelation

Lunch

15:30–16:00 Chairman: **Constantin Fetecău**

15:30–16:00	Ruxandra Stavre	Asymptotic approach of a fluid-structure interaction problem
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Coffee

16:30–19:00 Chairpersons: **Mirela Kohr and Cristian Făciu**

16:30–17:00	Constantin Fetecău	Energetic balance for the Reyleigh-Stokes problem of an Oldroyd-B fluid
17:00–17:30	Victor Țigoiu	Non-standard properties in some classes of non-Newtonian fluids
17:30–18:00	Șerban Rareș Pop	Free convection in a porous cavity with temperature dependent viscosity and radiation effects

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|-------------|--------------------------|---|
| 18:00–18:30 | Elena Carcadea | Theoretical aspects regarding the fluid dynamics in the catalyst layer of a PEM fuel cell |
| 18:30–19:00 | Valentin Butoescu | A vortex model of a helicopter rotor |

Wednesday, July 4th, 2007

09:00–11:00 Chairpersons: **Marius Cocou and Mihai Popescu**

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|-------------|---------------------------|--|
| 09:00–09:30 | Marcel Migdalovici | About integrability of unbound functions in the mechanical modeling |
| 09:30–10:00 | Anca Căpățină | On a class of abstract implicit evolution variational inequalities |
| 10:00–10:30 | Liliana Brăescu | The effect of the buoyancy and Marangoni forces on the dopant distribution in the case of a single crystal rod grown from the melt by the edge-defined film-fed growth (<i>EFG</i>) method |
| 10:30–11:00 | Loredana Smaranda | Bloch waves homogenization of a Dirichlet problem in a periodically perforated domain |

Coffee

11:30–13:00 Chairpersons: **Izu Vaisman and Victor Țigoiu**

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|-------------|-------------------------|--|
| 11:30–12:00 | Dorin Wainberg | Geometric prequantization of a generalized mechanical system |
| 12:00–12:30 | Carmen Roșoreanu | Hopf bifurcation for coupled identical dynamical systems. Applications |
| 12:30–13:00 | Mircea Cazacu | On the travelling wave motion |

Lunch

15:30–16:00 Chairman: **Gelu Pașa**

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|-------------|-------------------------|---|
| 15:30–16:00 | Horia Dumitrescu | Dynamical stall modelling of airfoils and comparison with experiments |
|-------------|-------------------------|---|

Coffee

16:30–18:00 Chairman: Adrian Carabineanu

16:30–17:00	Simona Roatesi	Mathematical modeling of coupled chemical-mechanical interactions for shale
17:00–17:30	A. K. Haghi	A Langrangian for deflection of Rhombic Plate
17:30–18:00	Richard Selescu	An intrinsic study on a certain flow of an inviscid compressible fluid, with extension to some cases in magneto-plasma dynamics

Section 7: Theoretical Computer Science, Operations Research and Mathematical Programming

Monday, July 2nd, 2007

09:00–10:45 Chairman: **Ioan M. Stancu-Minasian**

- 09:00–09:45 **Irinel Drăgan** On the coalitional rationality of semivalues of cooperative transferable utility n-person games
- 10:00–10:45 **Radu Ioan Boț** Closedness type regularity conditions in convex optimization

Coffee

11:15–12:45 Chairman: **Irinel Drăgan**

- 11:15–11:45 **Sebastian Cioaba** Finding your perfect matching with eigenvalues
- 11:45–12:15 **Liliana Cucu** Real-time muliprocessor scheduling: feasibility issues
- 12:15–12:45 **Cristinca Fulga** Penalty-based decentralized methods for multiobjective optimization

Lunch

15:30–17:45 Chairman: **Radu Ioan Boț**

- 15:30–16:15 **Alexandra Tkacenko** Time-constraining multiobjective fractional transportation problem

Coffee

- 16:45–17:15 **Ioan M. Stancu-Minasian** Duality for multiobjective nonlinear fractional programming problems involving generalized d-type-I n-set functions
- 17:15–17:45 **Valeriu Ungureanu** Equilibrium principles for Pareto-Nash-Stackelberg games

17:45–19:15 Chairman: **Alexandra Tkacenko**

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|-------------|------------------------|--|
| 17:45–18:15 | Gheorghe Dogaru | Fuzzy integer transportation problem |
| 18:15–18:45 | Ştefan Mititelu | Topics in invexity theory |
| 18:45–19:15 | Vlad Şerban | The non-anticipation of the asynchronous systems |

Tuesday, July 3rd, 2007

Special Session : Mathematical Truth and Provability in the 21st Century

09:00–10:45 Chairman: **Solomon Marcus**

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|-------------|------------------------|---|
| 09:00–10:00 | Douglas Bridges | Constructive reverse mathematics |
| 10:15–10:45 | Dragoş Vaida | Proof, explanation and example in the mathematical discourse of some Romanian mathematicians: Dan Barbilian and Grigore C. Moisil |

Coffee

11:15–12:45 Chairman: **Douglas Bridges**

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|-------------|------------------------|---|
| 11:15–11:45 | Ilie Pârvu | Mathematical proof and the argumentative structure of science |
| 11:45–12:15 | Cristian Calude | The halting problem and experimental mathematics |
| 12:15–12:45 | Doru Ştefănescu | Mathematical proofs and algorithms |

Lunch

15:30–17:45 Chairman: **Cristian Calude**

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|-------------|-----------------------|-------------------------|
| 15:30–16:15 | Solomon Marcus | Proving and programming |
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Coffee

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|-------------|----------------------------|---|
| 16:45–17:15 | Virgil Căzănescu | Foundation of the rewriting in an algebra |
| 17:15–17:45 | Gheorghe Ştefănescu | Tiling and Iteration |

17:45–19:15 Chairman: **Dragoş Vaida**

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|-------------|----------------------------|---|
| 17:45–18:15 | Gabriel Istrate | Phase transitions in combinatorial optimization problems and computational complexity: towards rigorous connections |
| 18:15–18:45 | Cristian Kevorchian | A pragmatic overview of automated reasoning |
| 18:45–19:15 | Gabriel Ciobanu | Proof and deduction in dynamic interaction-based systems |

Wednesday, July 4th, 2007

09:15–10:45 Chairman: **Virgil Căzănescu**

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|-------------|-----------------------|--|
| 09:15–09:45 | Marius Buliga | Self-similar dilatation structures and automata |
| 09:45–10:15 | Marian Baroni | Towards a good constructive definition of order completeness |
| 10:15–10:45 | Mihaela Baroni | Modelling reticulate evolution |

Coffee

11:15–12:45 Chairman: **Ioan Tomescu**

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|-------------|-------------------------|--|
| 11:15–11:45 | Violeta Manevska | Relationship between vector valued semigroup automata and random processes |
| 11:45–12:15 | Eugen Mândrescu | On local maximum stable sets of the corona of a path with complete graphs |
| 12:15–12:45 | Laurenţiu Modan | Some remarks about random graphs |

Lunch

15:30–18:45 Chairman: **Ştefan Mititelu**

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|-------------|------------------------|---|
| 15:30–16:00 | Emil Moldoveanu | Semisupervised learning using Dirichlet spaces techniques |
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Coffee

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|-------------|---------------------|--|
| 16:45–17:15 | Olesia Groza | Performance characteristics of the queueing models in network technologies |
|-------------|---------------------|--|

17:15–17:45	Andrei Rusu	On functionally completeness problems in provability intuitionistic logic
17:45–18:15	Maria Miroiu	Considerations on a boosting algorithm
18:15–18:45	Alin Marian Rusu	Approximations for reconstruction problems
18:45–19:15	Virginia Atanasiu	More general credibility models

Section 8: History and Philosophy of Mathematics

Saturday, June 30th, 2007

09:00–10:45 Chairman: **Theodor Hanganu**

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|-------------|-------------------------------|--|
| 09:00–09:45 | Tudor Zamfirescu | Euler and the graph theory |
| 10:00–10:45 | Eleutherius Symeonidis | The algorithms of Sister Celine and R.W. Gosper, Jr., for the hypergeometric summation |

Coffee

11:15–12:45 Chairman: **Tudor Zamfirescu**

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|-------------|-----------------------|--|
| 11:15–12:00 | Mihaela Singer | Recent research in cognitive science and neuroscience: is it relevant to mathematics learning? |
| 12:15–12:45 | Dragoş Vaida | The beginning of computer science in Romania and the role of Professor Grigore C.Moisil |

Tuesday, July 3rd, 2007

09:00–11:45 Chairman: **Eleutherius Symeonidis**

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|-------------|------------------------|--|
| 09:00–09:45 | Theodor Hanganu | Giovanni Poleni's curve, elastic curves and elastic strips |
| 10:00–10:45 | Doru Ştefănescu | Traian Lalescu and the birth of algebra in Romania |

Coffee

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|-------------|------------------------|--|
| 11:15–11:45 | Laurenţiu Modan | Professor Constantin Corduneanu, a life dedicated to Mathematics |
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