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

Coffee

11:15–13:00 Chairman: Mircea Mustaţă

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

Lunch

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 Iwassawa theory)

Coffee

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 Nichita  Coloured bialgebras and nonlinear equations
18:55–19:15 Cosmin Pelea     Multialgebras universal algebras and identities
19:15–19:35 Aleona Babiy     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 Burghelea  Torsion as a function on the variety of representations

**Lunch**

**Section 1A : Geometry**

15:30–17:45 Chairman: Liviu Ornea

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

**Coffee**

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: Ștefan 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

**Coffee**

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 Mustață  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

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

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-$\rho$ derivations on a $\rho$-commutative algebra and applications to the quaternionic algebra
19:15–19:35  Laurentiu Calmutchi  On Perfect compactifications of $T_0$-spaces

Section 1B : Algebra

15:30–17:45 Chairman: Preda Mihăilescu

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

Coffee

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

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

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

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>11:15–12:00</td>
<td>Maurice Mignotte</td>
<td>Pure powers among Fibonacci numbers</td>
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<tr>
<td>12:15–13:00</td>
<td>Paltin Ionescu</td>
<td>Manifolds covered by lines</td>
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**Lunch**

**Section 1A : Geometry**

15:30–17:45 Chairman: Tudor Raţiu

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<tr>
<td>15:30–16:15</td>
<td>Liviu Ornea</td>
<td>A CR-embedding for Sasakian manifolds</td>
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**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

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<tr>
<td>17:50–18:20</td>
<td>Liviu Popescu</td>
<td>The geometry of Lie algebroids and its applications</td>
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<td>18:20–18:50</td>
<td>Iulia Hircă</td>
<td>Algebraic operators provided from differential geometry</td>
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<td>18:55–19:15</td>
<td>Ion Şandru</td>
<td>Dirac fermions in curved space: spinorial invariance, densities and conservation laws</td>
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<tr>
<td>19:15–19:35</td>
<td>Florin Damian</td>
<td>Geometry and topology of low dimensional hyperbolic manifolds from the point of view of discrete geometry</td>
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**Section 1B : Algebra**

15:30–17:45 Chairman: Maurice Mignotte

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<tbody>
<tr>
<td>15:30–16:15</td>
<td>Preda Mihăilescu</td>
<td>Primality proving, theoretical and practical</td>
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**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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<tr>
<td>17:50–18:20</td>
<td>Dan Ciubotaru</td>
<td>Spherical unitary representations for reductive groups</td>
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<td>18:20–18:50</td>
<td>Elena Cojohari</td>
<td>On general theory of skew polynomial rings</td>
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<td>18:55–19:15</td>
<td>Mihai Chiș</td>
<td>On the autocommutator subgroup of a finite group</td>
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<td>19:15–19:35</td>
<td>Natalia Lupașco</td>
<td>On endomorphism semigroups of direct products of commutative Moufang loops</td>
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Wednesday, July 4th, 2007

09:00–10:45 Chairman: Șerban Basarab

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00–09:45</td>
<td>Mircea Craioveanu</td>
<td>On the dynamics and geometry of an autonomous underwater vehicle with a fixed control authority</td>
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<tr>
<td>10:00–10:45</td>
<td>Florian Pop</td>
<td>Large fields and inverse Galois theory</td>
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Coffee

11:15–13:00 Chairman: Mircea Craioveanu

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>11:15–12:00</td>
<td>Șerban Basarab</td>
<td>Co-Galois theory: a topological group theoretic approach</td>
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<tr>
<td>12:15–13:00</td>
<td>Adrian Diaconu</td>
<td>Moment integrals for GL(m)XGL(n): toward convexity breaking</td>
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Lunch

Section 1A : Geometry

15:30–17:45 Chairman: Marian Aprodu

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<tbody>
<tr>
<td>15:30–16:15</td>
<td>Steriu Ianuș</td>
<td>Harmonic maps and Riemannian submersions from quaternionic Kaehler manifolds</td>
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Coffee

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 Pintea
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 quasivarities 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 Scilfos
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 \(\beta\)-Pascu convex functions of order \(\alpha\)

13:00–13:30 Petru T. Mocanu
Briot-Bouquet differential superordinations 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 Pantiruc
Fourier transform of the ”heat kernel” on the Heisenberg group
Saturday, June 30\textsuperscript{th}, 2007

09:00–10:45 Chairman: Matti Vuorinen

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

11:15–12:00 Dorin Ghişa
The geometry of Blaschke product mappings

12:15–13:00 Gabriela Kohr
Asymptotically starlike and asymptotically spiralike mappings in several complex variables

Lunch

15:30–17:35 Chairman: Heinrich Begehr

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

Coffee

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

17:40–18:00 Victoria Stanciu
Normal families of ring $\text{FMO}_{loc}$ 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 $\psi$-modulus
Monday, July 2\textsuperscript{nd}, 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 Că\u0103oiu

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 integration 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 Tevy 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 Morozan

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: Vincenţiu 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-dimnesional 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

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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 Zachariiev
New status of spectral theory for Schroedinger equation in inverse problem approach

17:45-18:15 Dumitru Opriș
Fractional Euler-Lagrange equations for Lie algebroids

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

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**Monday, July 2nd, 2007**

10:00–10:45 Chairman: Viorel Barbu

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<tbody>
<tr>
<td>10:00</td>
<td>Daniel Tătaru</td>
<td>Blow up for some critical semilinear wave equation</td>
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11:15–12:55 Chairman: Marius Mitrea

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<tr>
<td>11:15</td>
<td>Nicolae Jitarășu</td>
<td>Asymptotic behavior of solutions of elliptic equations in the neighborhood of boundary and the boundary problems with singular boundary conditions</td>
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<tr>
<td>11:50</td>
<td>Ovidiu Călin</td>
<td>A geometric method for computing heat kernels for Hermite-type operators</td>
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<tr>
<td>12:25</td>
<td>Ovidiu Ilie Șandru</td>
<td>Differential operators that divide the wave operator. Application in the mathematical physics</td>
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15:30–18:25 Chairman: Otto Liess

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<tr>
<td>15:30</td>
<td>Aurelian Cernea</td>
<td>The maximum principle for constrained differential inclusions with delay</td>
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<td>16:05</td>
<td>Valeriu Guțu</td>
<td>Limit sets of weakly contracting relations with eventual condensation</td>
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**Coffee**

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<tr>
<td>16:45</td>
<td>Narcisa Apreutesei</td>
<td>Fredholm property of infinite dimensional discrete operators</td>
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<td>17:20</td>
<td>Ludovic Dan Lemle</td>
<td>$C_0$-semigroups on the dual of a Banach space</td>
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<td>17:55</td>
<td>Vasile Glăvan</td>
<td>On the Favard-Floquet theory</td>
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<td>18:30</td>
<td>Raluca-Mihaela Georgescu</td>
<td>Equilibria of linear dynamical systems: analytical and algebraic approach</td>
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Tuesday, July 3rd, 2007

09:00–10:05 Chairman: Sergiu Aizicovici

09:00–09:30 Jenica Cringanu
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 Morozan**  Exponential stability of discrete time linear equations defined by positive operators on ordered Hilbert spaces

12:30–13:00  **Constantin Udriste**  Multi-time controllability observability and Bang-Bang principle

**Lunch**

15:30–17:40 **Chairman: Radu Purice**

15:30–16:00  **Valeriu Prepelita**  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

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

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

15:30–16:15 Lori Badea
Additive and multiplicative Schwarz methods for inequalities with contraction operators

16:45–17:15 Nicolae Dănet
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

17:50–18:20 Florentina Tone
Long-time stability of the implicit Euler scheme for the 2d Navier-Stokes equations
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

Coffee

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

11:15–12:00 Dan Pascali On semilinear spectral theory
12:15–13:00 Nicolae Suciu Analytic functions of $\rho$-contractions

Lunch

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 $\rho$-contractions

17:50–19:55 Chairman: Dumitru Gaşpar

17:50–18:20 Dan Popovici On the structure of $\gamma$ contractions
18:20–18:50 Laurian Suciu 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

20
Monday, July 2\textsuperscript{nd}, 2007

09:00–10:45 Chairman: Viorel Niţică

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 Fragoulopoulou
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 Joiţa
Extremal completely n-positive linear maps between $C^*$-algebras

17:50–19:35 Chairman: Nicolae Suciu

17:50–18:20 Ilie Valuşescu
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 Dâneț  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

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

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

Lunch

15:30–16:15 Chairman: Pierre Liardet

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

Coffee

16:45–17:55 Chairman: Vasile Preda

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 Postelinicu 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 Bonchiș
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 Polișevschi
Homogenization of the thermal flows with first-order jump interfaces

Coffee

16:30–19:00 Chairpersons: Ruxandra Stavre and Dan Polișevschi

16:30–17:00 Gelu Pașa
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 Groșan
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 2\textsuperscript{nd}, 2007

09:00–10:45 Chairman: Dorin Ieşan

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

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 ad bifurcation of waves in the electroconvection of nematic liquid crystals

Lunch

15:30–16:15 Chairman: Meir Shillor

15:30–16:15 Izu Vaisman  
Weak Hamiltonian dynamical systems

Coffee

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

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 3\textsuperscript{rd}, 2007
**09:00–11:00 Chairpersons: Florin Diacu and Eugen Grebenikov**

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

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

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

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

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<tr>
<td>15:30–16:00</td>
<td>Ruxandra Stavre</td>
<td>Asymptotic approach of a fluid-structure interaction problem</td>
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**Coffee**

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

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<tr>
<td>16:30–17:00</td>
<td>Constantin Fetecău</td>
<td>Energetic balance for the Reyleigh-Stokes problem of an Oldroyd-B fluid</td>
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<td>17:00–17:30</td>
<td>Victor Țăgoiu</td>
<td>Non-standard properties in some classes of non-Newtonian fluids</td>
</tr>
<tr>
<td>17:30–18:00</td>
<td>Șerban Rareș Pop</td>
<td>Free convection in a porous cavity with temperature dependent viscosity and radiation effects</td>
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</table>
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 4\textsuperscript{th}, 2007**

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

09:00–09:30  Marcel Migdalovici  About integrability of unbound functions in the mechanical modeling
09:30–10:00  Anca Căpățăină  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 (EFG) 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

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

**Lunch**

15:30–16:00 Chairmen: Gelu Pașa

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 multiprocessor 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

17:45–18:15 Gheorghe Dogaru  Fuzzy integer transportation problem
18:15–18:45 Ștefan Mititelu  Topics in invexity theory
18:45–19:15 Vlad Șerban  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

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

Coffee

11:15–12:45 Chairman: Douglas Bridges

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 Ștefănescu  Mathematical proofs and algorithms

Lunch

15:30–17:45 Chairman: Cristian Calude

15:30–16:15 Solomon Marcus  Proving and programming

Coffee

16:45–17:15 Virgil Căzănescu  Foundation of the rewriting in an algebra
17:15–17:45 Gheorghe Ștefănescu  Tiling and Iteration
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<tr>
<td>17:45–18:15</td>
<td>Gabriel Istrate</td>
<td>Phase transitions in combinatorial optimization problems and computational complexity: towards rigorous connections</td>
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<td>18:15–18:45</td>
<td>Cristian Kevorchian</td>
<td>A pragmatic overview of automated reasoning</td>
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<td>18:45–19:15</td>
<td>Gabriel Ciobanu</td>
<td>Proof and deduction in dynamic interaction-based systems</td>
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**Wednesday, July 4th, 2007**

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

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<tr>
<td>11:15–12:45</td>
<td>Violeta Manevska</td>
<td>Relationship between vector valued semigroup automata and random processes</td>
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<td>11:45–12:15</td>
<td>Eugen Mândrescu</td>
<td>On local maximum stable sets of the corona of a path with complete graphs</td>
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<tr>
<td>12:15–12:45</td>
<td>Laurentiu Modan</td>
<td>Some remarks about random graphs</td>
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**Lunch**

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<td>15:30–18:45</td>
<td>Emil Moldoveanu</td>
<td>Semisupervised learning using Dirichlet spaces techniques</td>
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<td>16:45–17:15</td>
<td>Olesia Groza</td>
<td>Performance characteristics of the queueing models in network technologies</td>
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<td>17:15–17:45</td>
<td>Andrei Rusu</td>
<td>On functionally completeness problems in provability intuitionistic logic</td>
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<td>17:45–18:15</td>
<td>Maria Miroiu</td>
<td>Considerations on a boosting algorithm</td>
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<td>18:15–18:45</td>
<td>Alin Marian Rusu</td>
<td>Approximations for reconstruction problems</td>
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<td>18:45–19:15</td>
<td>Virginia Atanasiu</td>
<td>More general credibility models</td>
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Section 8: History and Philosophy of Mathematics

Saturday, June 30th, 2007

09:00–10:45 Chairman: Theodor Hanganu

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

11:15–12:00 Mihaela Singer
Recent research in cognitive science and neuroscience: is it relevant to mathematics learning?

12:15–12:45 Dragoș 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

09:00–09:45 Theodor Hanganu
Giovanni Poleni’s curve, elastic curves and elastic strips

10:00-10:45 Doru Ștefănescu
Traian Lalescu and the birth of algebra in Romania

Coffee

11:15-11:45 Laurențiu Modan
Professor Constantin Corduneanu, a life dedicated to Mathematics