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 Mustață

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

15:30-16:15	Cristian Popescu	Special values of <i>p</i> -adic and global <i>L</i> -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
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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 refletive 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 $30^{\rm th},\,2007$

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	Ştefan 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 17:15–17:45	Cornelia Bejan Adriana Turtoi	Manifolds of quasi-constant sectional curvature 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 Langra- gian 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 prince	ciple
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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 Liţcanu	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- ρ derivations on a $\rho\text{-commutative}$ 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

15:30–16:15 Gigel Militaru	Factorization problems for :	finite groups
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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 Chiş	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 3^{rd} , 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

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 Raţiu

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 Şandru	Dirac fermions in curved space: spinorial invariance, densities and conservation laws
19:15-19:35	Florin Damian	Geometry and topology of low dimensional hyperbolic mani- folds 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
11:15-11:45	Biliana Krsteska	Generalized fuzzy mappings

17:50-19:35 Chairman: Mihai Cipu

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 commu-
		tative Moufang loops

Wednesday, July 4^{th} , 2007

09:00-10:45 Chairman: Şerban Basarab

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

Coffee

11:15-13:00 Chairman: Mircea Craioveanu

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)XGL(n): toward convexity break-
		ing

Lunch

Section 1A : Geometry

15:30-17:45 Chairman: Marian Aprodu

15:30-16:15	Steriu Ianuş	Harmonic maps and Riemannian submersions from quaternionic Kaehler manifolds
		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 Ianuş

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 Sclifos	On l -ideals of order lattice loop
19:15-19:35	Alexandru Covalschi	Identities of nilpotent A-loops