

1 Poster Programme

This is the list of Posters which have been accepted for presentation at 5ECM by the 5ECM Poster Committee.¹

In case of multiple authors, the poster will be presented by the author whose email address is given.

01 Logic and Foundations, on Monday

01.01 Giulia Battilotti giulia@math.unipd.it

Sequent calculus and quantum parallelism

01.02 Mirjana Borisavljevic mirjanab@afrodita.rcub.bg.ac.yu

Levels of Connections between Systems of Sequents and Natural Deduction

02 Algebra, on Monday

02.01 Akbar Golchin agdm@math.usb.ac.ir & **H. Mohammadzadeh**

Some new Equivalentents of (right) Groups

02.02 A. Sanchez & Carlos Rentería Márquez renteri@esfm.ipn.mx

Evaluation Codes Associated to Complete Bipartite Graphs

02.03 Pedro Dominguez Wade pedro.dominguez@umcc.cu

Modular π -representations of finite groups

02.04 Manuel González Sarabia msarabia@itesm.mx & **Eliseo Sarmiento Rosales**

Evaluation codes over some toric varieties

02.05 Paula Maria Catarino pcatarin@utad.pt

The monoid of orientation-preserving transformations on a finite chain

02.06 Alberto Facchini facchini@math.unipd.it

Direct-sum decompositions that are not unique but depend on two things

02.07 José María López, Agustín Marcelo, Antonio Rodríguez arod@dma.ulpgc.es

& **César Rodríguez**

An application of the total spectrum of a module to symmetric algebras

02.08 José María López, Agustín Marcelo, Félix Marcelo &

César Rodríguez cesar@dma.ulpgc.es

Insufficiency of the fitting ideals to characterize Cohen-Macaulyness of torsion modules of infinite projective dimension

02.09 José María López jlopez@dma.ulpgc.es, **Agustín Marcelo, Félix Marcelo &**

César Rodríguez

Reflexive modules over a regular ring wich are k -th syzygies

02.10 Antonio Beltrán abeltran@mat.uji.es & **María José Felipe**

Determining the structure of finite groups from its conjugacy class sizes

02.11 L.A. Kurdachenko, Javier Otal otal@unizar.es & **I.Ya. Subbotin**

On the influence of contranormal subgroups on the structure of certain groups

02.12 L.S. Karazin, Ana Martínez-Pastor anamarti@mat.upv.es & **M. D. Pérez-Ramos**

On products of groups and their π -structure

02.13 J. M. Casas jmcasas@uvigo.es

Homology with coefficients of Leibniz n -algebras

02.14 Mariagrazia Bianchi, Anna Gillio & Emanuele Pacifici pacifici@mat.unimi.it

Some relations between the structure of a finite group and its character table

02.15 Ya. Diasamidze, Sh. Makharadze, N. Rokva nino_rokva@mail.ru &

Il. Diasamidze

Complete Semigroups of Binary Relations Defined by Semilattices of the Class $\Sigma_7(X, 6)$

02.16 Vittoria Bonanzinga vittoria.bonanzinga@tin.it

On some classes of Cohen-Macaulay and Buchsbaum simplicial complexes

¹This is **not** the list of posters which have actually been **presented** on a poster board at 5ECM: unfortunately, a number of posters have not showed up during 5ECM!

- 02.17 Irina Dolguntseva** irina.dolgunceva@gmail.com
Hochschild second cohomology group of algebra $Cend_n$
- 02.18 Dmitry Gugin** dmitry-gugin@yandex.ru
Frobenius n -homomorphisms and polynomial dependent homomorphisms
- 02.19 A. Iranmanesh** iranmana@modares.ac.ir & **A. Jafarzadeh**
On the commuting graph of some finite groups
- 02.20 A. Azizi** aazizi@shirazu.ac.ir
Strongly irreducible ideals
- 02.21 Mario De Paz & Enzo Bonacci** enzo.bonacci@physics.org
Consequences of binomial expansion's unexplored properties on Fermat's triples and Cosine Law
- 02.22 Alexander Lashkhi**
 D -geometrical Lattices and Coordinatization of Ring Geometries
- 02.23 Alexander Lashkhi & Temur Bokelavadze**
The Fundamental Theorem of the Projective Geometry for w -power groups
- 02.24 M.I. Samoylovich** samoylovich@technomash.ru & **A.L. Talis**
Algebraic polytopes and special class of 3-dimensional ordered structures

03 Number Theory, on Monday

- 03.01 Roy Quintero** rquinter@ula.ve
Moving card c to position d with perfect k -shuffles
- 03.02 Armen Bagdasaryan** abagdasari@hotmail.com
Some results in number theory
- 03.03 Pierre Lanchon** pierre.lanchon4@tele2.fr
Euler and Bernoulli numbers, sums of integers raised to an integral power
- 03.04 M. Car, Luis H. Gallardo** Luis.Gallardo@univ-brest.fr, **O. Rahavandrainy & L.N. Vaserstein**
On the period of Bell numbers modulo a prime
- 03.05 Roma Kačinskaitė** r.kacinskaite@fm.su.lt
On discrete value distribution of the Hurwitz zeta-function
- 03.06 Betül Gezer, Osman Bizim** obizim@uludag.edu.tr & **Ahmet Tekcan**
On the elliptic divisibility sequences over finite fields
- 03.07 Guladi Partenadze** guladi@gmail.com
Idempotent Elements in the Semigroups of Binary Relations and their Software Support

04 Algebraic and Complex Geometry, on Monday

- 04.01 Sergio Mariano Licanic** ser@impa.br
Bounds for the degrees of vector fields tangent to a curve
- 04.02 Vlad Timofte** vlad.timofte@imar.ro
The half-degree and degree principles for symmetric polynomials on symmetric semi-algebraic sets
- 04.03 Maria-Angeles Zurro** mangleles.zurro@uam.es
Closure theorem for partially semialgebraics

05 Geometry, on Monday

- 05.01 Dmitry Slutsky** slutski@gorodok.net
On Blaschke addition of smooth convex bodies
- 05.02 Raquel Águeda** Raquel.Agueda@uclm.es
Homotopy classes of curve systems on the twice punctured torus
- 05.03 Karoly Bezdek** bezdek@math.ucalgary.ca
The Discrete Geometry of Ball-Polyhedra

- 05.04 Wen-Haw Chen** whchen@thu.edu.tw
Curvature, Hausdorff Distance and Path Integrals
- 05.05 S. Aynur Uysal** aaysal@dogus.edu.tr, **Füsün Özen & Sezgin Altay**
Isogeodesic and isochebyshevian nets in a n -dimensional Weyl space
- 05.06 Ramon González Calvet** rgonzal1@xtec.net
Applications of Clifford-Grassmann algebra to the plane geometry
- 05.07 Darko Veljan** dveljan@math.hr
Geometry of pentagons and volumes of fullerenes

06 Topology, on Tuesday

- 06.01 Esteban Induráin-Eraso** steiner@si.unavarra.es
Preorderable topologies and semicontinuous order-representability of topological spaces
- 06.02 Madeti Prabhakar** prabhakar@iitg.ernet.in
A degree sequence for p braided knots
- 06.03 Barbara Di Fabio** difabio@dm.unibo.it & **Claudia Landi**
Recognition of occluded shapes using Size Functions
- 06.04 Michele Mulazzani** mulazza@dm.unibo.it
Extending homeomorphisms from punctured surfaces to handlebodies
- 06.05 Anzor Beridze** anzorberidze@yahoo.com
Alexander-Spanier Cohomology of Wallmen Compactification
- 06.06 Vladimer Baladze**
On Shape and Homology Properties of Extensions and Remainders of Spaces
- 06.07 Alexandr Gaifullin** gaifull@mccme.ru
Realization of homology classes by aspherical manifolds

07 Lie Groups and Algebras

No submissions received

08 Analysis, on Tuesday

- 08.01 Madani Moussai** mmoussai@yahoo.fr
Superposition theorems in Besov and Lizorkin-Triebel spaces
- 08.02 Douadi Drihem** douadidr@yahoo.fr
On the mixed multiplication of Besov and Triebel-Lizorkin spaces
- 08.03 Valentin Skvortsov** valentin vaskvor2000@yahoo.com & **Francesco Tulone**
Generalized integrals in Fourier analysis on zero-dimensional groups
- 08.04 Parviz Azimi** azimi@hmoon.usb.ac.ir
A new class of Banach function spaces analogous to the James function space
- 08.05 E. Shcherbakov** echt@math.kubsu.ru
Generalized minimal surfaces in a class of Liouville surfaces
- 08.06 Dimitris Karayannakis** dkar@stef.teiher.gr
 $l_p(\mathbb{R}^n)$ Ramifications of a gamma functions ratio formula
- 08.07 Miloud Assal** Miloud.Assal@fst.rnu.tn
The dilation property of modulation spaces in the setting of the Laguerre hypergroups
- 08.08 Fatiha Sahraoui** douhy_fati@yahoo.fr
The dynamics of holomorphic germs near a curve of fixed points
- 08.09 Mikhail Korobkov** korob@math.nsc.ru
On necessary and sufficient conditions for a curve to be the gradient range of a C^1 -smooth function
- 08.10 Juan José Moreno Balcázar** balcazar@ual.es
Sobolev orthogonal polynomials: balance and asymptotics
- 08.11 Rahmatollah Lashkaripour** lashkari@hmoon.usb.ac.ir & **D. Foroutannia**

- New Extension of Hardy inequality on weighted sequence space*
- 08.12 G. Oniani** oniani@atsu.edu.ge
On the Convergence of Multiple Fourier-Haar Series
- 08.13 Timofey Rodionov** ttvrrr@yandex.ru
Families of uniform functions and some its applications
- 08.14 Alberto Lastra** alastra@am.uva.es % **Javier Sanz**
Stieltjes moment problem in general Gelfand-Shilov spaces
- 08.15 Roza Aceska** roza.aceska@univie.ac.at
Variable bandwidth: a time-frequency approach
- 08.16 Alexander Egorov** yegorov@math.nsc.ru
Quasiconvex functions and null Lagrangians in stability problems for classes of mappings
- 08.17 Kalvin Victor** vkalvin@gmail.com
On Hardy Classes of Vector-Valued Distributions in a Plane Cone
- 08.18 Romeo Mestrovic** romeo@cg.ac.yu & **Zarko Pavicevic**
Universal Multipliers of a Class of the de Branges Spaces
- 08.19 Anatoly Golberg** golberga@hit.ac.il
A generalization of the Bohr-Menshoff-Trokhimchuk theory
- 08.20 Maxim Derevyagin** derevyagin.m@gmail.com
Generalized Jacobi operators in Padé approximation theory
- 08.21 David Kalaj** davidk@cg.ac.yu
On some differential inequality and apriori estimate on the space
- 08.22 Sanja Bauk** bsanja@cg.yu & **Slavica Perovic**
An Inverse Approach to the Poisson Distribution Function based upon Special Trans Function Theory
- 08.23 Slavica Perovic** bsanja@cg.yu & **Sanja Bauk**
Concerning a novel application of the special trans function theory

09 Operator Algebras and Functional Analysis, on Tuesday

- 09.01 Mohamed I. Abbas** m_i_abbas77@yahoo.com
Asymptotic stability of solutions for an integral equation of mixed type
- 09.02 Dahmane Achour** dachourdz@yahoo.fr
Multilinear Kwapine's factorization theorem
- 09.03 Lahcène Mezrag** lmezrag@yahoo.fr & **K. Saadi**
On the relationship between multilinear and multisublinear operators
- 09.04 Alexander Ya. Helemskii** helemskii@rambler.ru
Semi-Ruan one-sided modules, the extreme flatness and Arveson-Wittstock type theorems
- 09.05 Dan Popovici** popovici@math.uvt.ro
On the Structure of γ -Contractions
- 09.06 Abdelkrim Nokrane** a.nokrane@menara.ma
Estimating matching distance between spectrums
- 09.07 Dushan R. Georgijević** dgeorgijevic@mas.bg.ac.yu
Directional Interpolation of Stieltjes Functions
- 09.08 Vladimir Manuilov** vladimir.manuilov@gmail.com
Asymptotic representations of the reduced C^ -algebra of a free group: an example*
- 09.09 Maria Joița** mjoita@fmi.unibuc.ro
Morita equivalence and outer conjugacy of group actions on locally C^ -algebras*
- 09.10 Yuri Bondarenko** smirn@yspu.yar.ru
On Geometric Properties of Function Cones
- 09.11 Evgenii Berezhnoi** ber@uniyar.ac.ru
On Nonsmooth Subspaces of Function Spaces
- 09.12 Ilie Valusescu** ilie.valusescu@yahoo.co.uk
Operator valued processes in complete correlated actions
- 09.13 Claudia Landi** clandi@unimore.it & **Patrizio Frosini**

- Reparametrization invariant norms*
- 09.14 Dali Makharadze** dali_makharadze@mail.ru
Some Local Approximative Properties of Cesàro Means of Trigonometric Fourier Series
- 09.15 S. Mouton** smo@sun.ac.za
Aspects of Spectral Continuity in Ordered Banach Algebras
- 09.16 Evgenij V. Troitskiĭ** troitsky@higeom.math.msu.su
A property (T_1P) for C^ -algebras*
- 09.17 Young Joo Lee** leeyj@chonnam.ac.kr
Characterizations of Commuting Toeplitz Operators on the Hardy space of the bidisk
- 09.18 Marian Nowak** M.Nowak@wmie.uz.zgora.pl
Operator-valued measures and linear operators

10 ODEs and Dynamical Systems, on Wednesday

- 10.01 Radu Zaharopol** rxz@ams.org
The Krylov-Bogoliubov-Beboutoff-Yosida Decomposition
- 10.02 Ignacia Arcaya** ignacia.arcaya@gmail.com & **N. Romero**
On a Hedlunds theorem and place-dependent cellular automata
- 10.03 Julka Knežević-Miljanović** knezevic@poincare.matf.bg.ac.yu
Some asymptotic properties of differential equation
- 10.04 Valery Gaiko** vlrgek@yahoo.com
Liénard-Type Dynamical Systems
- 10.05 Alexander Ignatyev** aognat@mail.ru
Stability in systems with impulse effect
- 10.06 Aurelian Cernea** acernea68@yahoo.com
Existence results for mild solutions of a nonconvex second-order differential inclusion
- 10.07 Shih-Feng Shieh** sfshieh@math.ntnu.edu.tw
Eigenvalue Estimates Using the Kolmogrove-Sinai Entropy
- 10.08 Chi-Ru Yang** succinct.am93g@nctu.edu.tw
The co-existence of different fronts of traveling waves
- 10.09 Inessa I. Matveeva** matveeva@math.nsc.ru
On properties of solutions of a system of ordinary differential equations with parameter
- 10.10 Alexander Grin'** grin@grsu.by
Estimation of number and localization of limit cycles for some classes of planar dynamical systems
- 10.11 Juan F. Navarro** jf.navarro@ua.es
The Poincaré-Lindstedt technique via symbolic computation
- 10.12 Sergey Kryzhevich** kryzhevitz@rambler.ru
On structure of nonhyperbolic invariant sets of dynamical systems
- 10.13 Rui Paiva** rui.paiva@fc.up.pt
Hopf Bifurcation in coupled cell networks with interior symmetries
- 10.14 Vladimir Salnikov** vladimir.n.salnikov@gmail.com
Comparison of some approaches to analysis of the integrability of dynamical systems
- 10.15 Fátima Drubi Vego** drubifatima.uo@uniovi.es
Hopf-Pitchfork Singularities and Coupled Systems
- 10.16 Tatiana Salnikova** tatiana.salnikova@gmail.com
On the stability of linear potential gyroscopic systems
- 10.17 Shyan-Shiou Chen** shyanshiou.chen@gmail.com
Transversal homoclinic orbits in Discrete-Time Cellular Neural Networks with time delay
- 10.18 Diana Otrocol** dotrocol@ictp.acad.ro
Systems of functional-differential equations with maxima, of mixed type
- 10.19 Ghodrat Ebadi** ghodrat_ebadi@yahoo.com
Numerical solution of nonlinear Fredholm integro-differential equations with arbitrary bases by using Tau method

10.20 **Eliana Manuel Pinho** eopinho@fc.up.pt
Periodic patterns of synchrony in lattice differential equations

11 Partial Differential Equations, on Wednesday

- 11.01 **Tahir S. Gadjiev** tgadjiev@mail.az & **Shafiga N. Mammadova**
Behaviour of solutions of first mixed problem for second order nonlinear parabolic equations
- 11.02 **Tahar Zamène Boulmezaoud** Tahar.Boulmezaoud@math.uvsq.fr
An algebraic law for the image by Fourier transform of weighted Sobolev spaces
- 11.03 **Abdelouahab Kadem** abdelouahabk@yahoo.fr
 SW_n method for solving transport equation in three dimensional case
- 11.04 **Natalia Chinchaladze** chinchaladze@gmail.com
On a system consisting of degenerate equations of second order
- 11.05 **George Jaiani** george.jaiani@gmail.com
On Existence Theorems for Cuspidal Prismatic Shell-like Bodies
- 11.06 **Ali R. Soheili & Maryam A. Ameri** arabameri@math.usb.ac.ir
Moving Mesh Based on Level Set Method for Time Dependent Partial Differential Equations
- 11.07 **Nouredine Benhamidouche** benhamidouche@yahoo.fr
Exact solutions to some non linear PDEs, travelling profiles method
- 11.08 **Huei-li Lin** hlin@mail.cgu.edu.tw
Multiple positive solutions of semilinear elliptic equations in exterior domains
- 11.09 **Shu-Ming Chang** smchang@math.nctu.edu.tw
Nonlinear Schrödinger Solitary Waves
- 11.10 **Sanja Marušić** marusics@fpz.hr
Natural convection in shallow waters
- 11.11 **Eduard Marušić-Paloka** emarusic@math.hr
Mathematical modelling of a nuclear waste disposal site via homogenization
- 11.12 **Dmitry A. Vorotnikov** mitvorot@math.vsu.ru
On the equations of viscoelastic diffusion in polymers
- 11.13 **V.G. Zvyagin** zvg@main.vsu.ru
Topological approximation method in boundary value problems for stationary models of hydrodynamics
- 11.14 **Yueh-Cheng Kuo** yckuo@nuk.edu.tw
A hyperplane-constrained continuation method for rotating Bose-Einstein Condensates
- 11.15 **Gennadii V. Demidenko** demidenk@math.nsc.ru
Mapping properties of matrix quasielliptic operators
- 11.16 **Handan Borluk & Saadet Erbay** serbay@isikun.edu.tr
Existence of solitary waves for three coupled long wave-short wave interaction equations
- 11.17 **Maliki Youssef** malyouc@yahoo.fr
Multiplicity of solutions to Q -curvature equation on complete manifolds
- 11.18 **Valeriy A. Galkin** val-gal@yandex.ru
Quasilinear non-local Hopf-type equation
- 11.19 **Rodica Luca Tudorache** rlucatudor@yahoo.com
On a class of nonlinear differential problems with second-order differences
- 11.20 **Jaan Janno** janno@ioc.ee
Reconstruction of memory kernels in a parabolic transmission problem
- 11.21 **Aida Timofte** Aida.Timofte@imar.ro
Homogenization for a ferroelectric model
- 11.22 **Enno Pais** ennopais@stv.ee
Inverse problem with flux observations to determine degenerate memory kernels in heat conduction
- 11.23 **Svetlana G. Bugaeva**
Phase Transition Problem in the Moving Media

- 11.24 Oleg Zhdanov** onzhdanov@mail.ru
The solution of Cauchy problem for quasilinear systems of hyperbolic partial differential equations
- 11.25 Pablo Angulo Ardoy** pablo.angulo@uam.es & **Luis Guijarro Santamaría**
Structure of the singular set for solutions of Hamilton-Jacobi equations
- 11.26 Vladyslav Prytula** Vladyslav.Prytula@uclm.es & **L. Pankratov**
Nonlocal effects in homogenization of $p(x)$ -Laplacian in perforated domains

12 Mathematical Physics, on Thursday

- 12.01 G. M. Abd Al-Kader** abdalkaderg@sci-azhar.edu.eg & **A.-S. F. Obada**
Nonlinear two-mode squeezed vacuum states as realization of $SU(1,1)$ Lie algebra
- 12.02 Bragdi Mabrouk** bravdi@yahoo.com
The effect of optically thick limit and buoyancy forces on the stability of MHD Ekman layer
- 12.03 Ioana Dragomirescu** i.dragomirescu@gmail.com
Spectral methods in applicative problems in hydrodynamic stability theory
- 12.04 Valery Dryuma** Dryuma@math.md
Riemann extensions and their applications
- 12.05 Evgeny G. Saltykov** saltykov@cs.msu.su
The Spectral Expansion on the Real Half-line of Green's Function for a Half-space consisted of Two Layers in the Fundamental Functions of a Nonsself-adjoint Sturm-Liouville Operator
- 12.06 J. García-Ravelo, Shi-Hai Dong, Jose Juan Peña** jjpg@correo.azc.uam.mx & **J. Morales**
Construction of a general polynomial potential from Darboux theorem
- 12.07 María del Carmen Martínez Belda** carmen.martinez@ua.es
Direct solar and planetary influences in the potential of the rigid Moon
- 12.08 V.I. Gerasimenko** gerasym@imath.kiev.ua & **V. O. Shtyk**
The von Neumann Hierarchy for Correlation Operators of Quantum Many-Particle Systems
- 12.09 Uwe Guenther & Oleg Kirillov** olkirillov@mail.ru
Homotopic deformations of the Arnold tongue patterns
- 12.10 Mario Zacarés** mzacares@upvnet.upv.es, **L. Monreal, P. Fernández de Córdoba** & **C. Mili**
A generalized master equation for modeling highly nonlinear pulse propagation
- 12.11 L. Monreal** lmonreal@mat.upv.es, **P. Fernández de Córdoba, A. Ferrando & J.M. Isidro**
Noncommutative space and the nonlinear Schroedinger equation in the presence of a quasiperiodic potential

13 Probability and Statistics, on Thursday

- 13.01 Margaryta Myronyuk** myronyuk@ilt.kharkov.ua
On the Skitovich-Darmonis theorem for locally compact Abelian groups
- 13.02 Manuel Úbeda Flores** mubeda@ual.es
On a set-theoretic interpretation of associative copulas
- 13.03 Slavko Simic** sima.s@EUnet.yu
On Asymptotic Behavior of Moments of the Power Series Distributions
- 13.04 Boris Darkhovsky** darbor@isa.ru
Minmax estimation of functionals in noise
- 13.05 M.B. Ghaemi, Bernardo Lafuerza-Guillén** blafuerz@ual.es & **A. Razani**
A common fixed point for operators in probabilistic normed spaces
- 13.06 Nadezda Volodko** nvolodko@gmail.com
Multiple orthogonal series and asymptotic analysis of canonical U -statistics based on

- dependent observations*
- 13.07 Daniel Ciuiu** dciuiu@yahoo.com
Linear Programming by the Monte Carlo Method using Queueing Networks and Games Theory
- 13.08 Christiane Takacs** Christiane.Takacs@jku.at
Spectral properties of lumpable Markov chains
- 13.09 Anatoliy Swishchuk** aswish@math.ucalgary.ca
Change of Time and Pricing Financial and Energy Derivatives: Multi-Factor Lévy Models
- 13.10 Ljiljana Petrović** petrovl@one.ekof.bg.ac.yu
Some Concepts of Causality in Continuous Time
- 13.11 Gabriel V. Orman** ogabriel@unitbv.ro & **Irinel Radomir**
Some Markov-Dependence Aspects In Discrete Time Systems

14 Combinatorics, on Thursday

- 14.01 Vadim E. Levit & Eugen Mandrescu** eugen_m@hit.ac.il
Local Maximum Stable Sets and Greedoids
- 14.02 Hortensia Galeana-Sánchez & Martín Manrique** martin@math.unam.mx
Level-Hypergraphs
- 14.03 P. Delgado-Escalante** pietra@matem.unam.mx & **Hortensia Galeana-Sánchez**
Alternating domination in arc colored digraphs
- 14.04 Raúl Manuel Falcón Ganfornina** rafalgan@us.es
Determinants of Latin squares of a given pattern
- 14.05 Hortensia Galeana-Sánchez** hgaleana@math.unam.mx
Some sufficient conditions for the existence of kernels in infinite digraphs
- 14.06 Rocío Rojas-Monroy** mrrm@uaemex.mx
Kernels and some operations in edge coloured digraphs
- 14.07 Ronald F. Wotzlaw** wotzlaw@math.TU-Berlin.DE
Perles Skeleton Theorem and Positive Spanning Sets

15 Mathematical Aspects of Computer Science, on Thursday

- 15.01 Adriana Popovici** dianap@math.uvt.ro
Word Decompositions for Linear Cellular Automata
- 15.02 S. Biasotti, A. Cerri** cerri@dm.unibo.it, **P. Frosini, D. Giorgi & C. Landi**
Comparing Shapes by means of k -dimensional Size Functions
- 15.03 Victor N. Kasyanov** kvn@iis.nsk.su
SFP - a system for construction and optimization of parallel programs

16 Numerical Analysis and Scientific Computation, on Thursday

- 16.01 E.V. Tabarintseva** ev_tab@math.susu.ac.ru
On an inverse boundary problem for a semi-linear parabolic equation
- 16.02 Bosko Jovanovic** bosko@poincare.matf.bg.ac.yu
Numerical Solution of a Parabolic Transmission Problem
- 16.03 J. Rogava & M. Tsiklauri** mtsiklauri@gmail.com
The fourth order of accuracy decomposition scheme for nonhomogeneous hyperbolic equation
- 16.04 Marco Vianello** marcov@math.unipd.it
Near-optimal interpolation and quadrature in two variables: the Padua points
- 16.05 Juri M. Rappoport** jmrapp@orc.ru
Numerical analysis of differential equations for complex Macdonald functions

- 16.06 Emil Popescu** epopescu@utcb.ro
Trotter products and nonlinear evolution equations. Numerical aspects
- 16.07 G. Hojjati** ghojjati@tabrizu.ac.ir & **K. Parand**
A new algorithm for numerical solution of differential equations of Lane-Emden type
- 16.08 Mehrdad Lakestani** lakestani@tabrizu.ac.ir
Numerical solution of Hallens integral equation by using cardinal Legendre functions
- 16.09 H. Kheiri**
A comparison between the variational iteration method and Adomian decomposition method for computing eigenvalues and eigenvectors of Sturm-Liouville problem
- 16.10 Agissilaos G. Athanassoulis** agis.athanassoulis@gmail.com
A numerical method for infinite-order pseudodifferential equations: numerical analysis and validation
- 16.11 Teodora Căținaș** tcatinas@math.ubbcluj.ro
Some combined Shepard interpolation operators
- 16.12 Alexandra Oprisan** alexandra.oprisan@ipsos-interactive.com
About efficiency of numerical methods for solving nonlinear equations generated by inverse interpolation
- 16.13 Emil Căținaș** ecatinas@ictp.acad.ro
Local convergence of some iterative methods
- 16.14 Nasser Aghazadeh** aghazadeh@iust.ac.ir
Semiorthogonal Quadratic B-Spline Wavelet Approximation for Integral Equations
- 16.15 Ilhame Amiraliyeva** ailhame@gmail.com
Numerical method for parametrized singularly perturbed delay differential equations
- 16.16 Davit Devadze**
On One Numerical Method of Solution of an Optimal Control Problem
- 16.17 M. Zacarés** mzacares@upvnet.upv.es, **J. Ibañez**, **Pedro A. Ruiz** & **V. Hernández**
High performance algorithms for modelling nonparaxial propagation of light in nonlinear media
- 16.18 I. Orquín** isorser@aaa.upv.es, **L. Monreal**, **F. Villatoro**, **P. Fernández** & **J. Urchuegu**
Stability analysis of different finite difference schemes for the linear Schrödinger equation in 1D and 2D

17 Control Theory and Optimization, on Friday

- 17.01 Olga Vasilieva** olgavas@univalle.edu.co
Numerical technique based on interior variations for solving optimal control problems
- 17.02 Ioan Stancu-Minasian & Narcisa Teodorescu** narcisa.teodorescu@gmail.com
Methods of solving multi-objective fractional programming problems
- 17.03 Hansheng Wu** hansheng@pu-hiroshima.ac.jp
Adaptive Robust Asymptotic State Observers for Nonlinear TimeDelay Dynamical Systems
- 17.04 Andrzej Just** ajust@p.lodz.pl
Optimal Control Problem of Some Parabolic Hemivariational Inclusion
- 17.05 A.F. Shorikov** shorikov@usue.ru
Minimax Program Terminal Control Problem in Two-Level Hierarchical Discrete-Time Dynamical System
- 17.06 Cristina Fulga** fulga@csie.ase.ro
Portfolio Optimization for Multiperiod Utility Based Models
- 17.07 Ioan Stancu-Minasian** stancu_minasian@yahoo.com
Duality for multiobjective nonlinear fractional programming problems involving generalized d-type-I n-set functions
- 17.08 Miguel V. Carriegos** miguel.carriegos@unileon.es
Pole-shifting for linear systems over commutative rings. Some algebraic results
- 17.09 Jingshu Liu** liujingshu2008@gmail.com

The convergence theorem for fixed points of Lipschitzian strictly pseudo-contractive mappings in Banach spaces with the three-step Ishikawa Iterative with errors

17.10 Alexander Zuyev al_zv@mail.ru

Stabilization of a controlled beam equation with mixed boundary condition

18 Applications of Mathematics in the Sciences, on Friday

18.01 Ester Gutiérrez Moya egm@esi.us.es

Assessing Mutual Funds performance combining DEA and SSD

18.02 Edgardo Jovero ej34@kent.ac.uk

A Chaotic-Dynamic View of Investment Risk in Emerging Economies

18.03 Angela Slavova slavova@math.bas.bg

Bifurcations and oscillatory behaviour in a class of Cellular Neural Networks

18.04 Federico Zertuche zertuche@matcuer.unam.mx

On the Emergence of Genetic Robustness in NK-Kauffman Networks

18.05 Nadezda Alexandrova alex@math.nsc.ru

Wave damping in a chain of massive bodies with springs and dampers

18.06 Gheorghe Mishkoy gmiscoi@asm.md

On the generalization of Kendall - Takacs functional equation

18.07 Sergey Serdyukov svserd@academ.org

Optimization in geophysical inverse problem

18.08 Giuliani Donatella giulianidonatella@libero.it

The description of biological growth using Spline Hermite Interpolation

18.09 Alina Bărbulescu alinadumitriu@yahoo.com

Hausdorff and box dimension of some sets and applications

18.10 Sharif Elbaevich Guseynov sh.e.guseinov@inbox.lv

Unique existence and determination of time-dependent sensitivity coefficient of 2-D traffic flow on the multilane road

18.11 Sant S. Mishra sant_x2003@yahoo.co.in

Price determination for an EOQ model for deteriorating items under perfect competition

18.12 Elisabetta Marras & Enrico Capobianco enrico.capobianco@gmail.com

Protein Interactomics: Feature Characterization and Statistical Learning

18.13 Simon Eloshvili simoneloshvili@yahoo.com

The Differential Geometric and Probabilistic Methods in Common Application to Physical, Biological and Economical Systems

18.14 Shyan-Shiou Chen shyanshiou.chen@gmail.com, **Li-Fen Chen, Pei-Chi Tu, Tung-Ping Su, Jen-Chuen Hsieh & Ying-Chia Lin**

Different Synchronization Tendency between the frontal areas of Bipolar Patients and Normal subjects

18.15 V.R. Kardashov & Lev V. Eppelbaum levap@post.tau.ac.il

Mathematical Models of Strongly Nonlinear Geophysical Phenomena

18.16 Serge Dumont serge.dumont@u-picardie.fr, **J. Fortin & Y. Ouafik**

Rheology of granular materials with a Discrete Element Method

18.17 I. Orquín isorser@aaa.upv.es, **M. Zacarés, F. Villatoro, P. Fernández & J. Urchuegu**

Transparent boundary condition for the Schrödinger equation. Linear and nonlinear case. Applications to optics.

19 Mathematical Education and Popularisation, on Friday

19.01 Saltas Vassilios coin_kav@otenet.gr

Semi - theorems as a helping tool in solving mathematical exercises

19.02 Håkan Lennerstad Hakan.Lennerstad@bth.se

Periodic system of mathematical functions

- 19.03 Zsófia Ruttkay** zsofi@cs.utwente.nl & **Henk Barendregt**
Doing math in the Hungarian way with Dutch teenagers
- 19.04 Zoi Nikiforidou** znikifor@cc.uoi.gr & **J. Pange**
Probability estimations and graph representations by preschoolers
- 19.05 S. Hernández, C. Perea** perea@umh.es, **I. Polo-Blanco, C. Ramírez Perea Marco**
 & **Maria Del Carmen**
A cubic surface in stone
- 19.06 V. Galiano & V. Herranz** mavi.herranz@umh.es & **C. Perea & I. Polo &**
J. Sanchez Herranz Cuadrado
A virtual museum of mathematics. MUMART
- 19.07 Paula Maria Catarino** pcatarin@utad.pt, **Cecília Costa & Maria Manuel da Silva**
Nascimento
*The mathematical processes involved in some traditional activities in
 “Trás-os-Montes e Alto Douro”*
- 19.08 Francisco Pedroche Sánchez** pedroche@mat.upv.es
A collaborative project involving three ruled surfaces
- 19.09 Chu-Ching Huang** cchuang@mail.cgu.edu.tw
Educational platform of Mathematics with Open Sources
- 19.10 J. Gibergans & P. Buenestado & G. Pujol** gisela.pujol@upc.edu
Mathematics for engineering in the context of European higher education area
- 19.11 Franka Miriam Brückler** bruckler@math.hr, **Vladimir Stilinović, Željka Bilac &**
Krešimir Molčanov
Mutual Benefit - Teaching and Popularisation of Mathematics via Chemistry
- 19.12 J.M. Isidro & M. Zacarés & M.A. García-March & L. Monreal**
 lmonreal@mat.upv.es
Monte Carlo methods in partial differential equations

20 History of Mathematics, on Friday

- 20.01 Pieter Maritz** pmaritz@dreamsurf.co.za
The Life and Work of Alexei Andreievich Lyapunov (1911 - 1973)