

Raport Anual

Institutul de Matematică "Simion Stoilow" al Academiei Române

2014

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6 Premii

6.1 În străinătate

- Cristian Sminchiescu, castigator (cu Dan Banica), Reconstruction Meets Recognition Challenge, Segmentare Semantica, European Conference on Computer Vision (ECCV), 2014 (metodologie de la U.C. Berekeley, ETH Zurich, NYU, etc.)
- Birant Ramazan: Gene LeMay Outstanding Teaching Award in the College of Science of the University of Nevada Reno
- V. Ursu: "Medalia de aur a Universității Tehnice a Moldovei" pentru rezultate marcante în activitatea profesională și contribuții esențiale în dezvoltarea și consolidarea universității

6.2 Premiile Academiei Române

- Madalina Petcu: Premiul *Spiru Haret* al Academiei Române pe anul 2011 (acordat în 2013).
- Dan Timotin: Premiul *Simion Stoilow* al Academiei Române pe anul 2011 (acordat în 2013).
- Adrian Ioana: Premiul *Dimitrie Pompeiu* al Academiei Române pe anul 2011, acordat în 2013.
- Marius Leordeanu: Premiul *Grigore Moisil* Academiei Romane pe anul 2012, acordat in 2014.
- Serban Belinschi: Premiul Academiei Romane pe anul 2012, acordat in 2014.
- George Marinescu: Premiul Academiei Romane pe anul 2012, acordat in 2014.

6.3 În țară

- Sergiu Moroianu: Premiul Ad Astra pentru Excelența în cercetare – afiliere în România, <http://premiu.ad-astra.ro/>
- Dan Vuza: Best Paper Award pentru lucrarea *Automated platform for determination of LEDs spatial radiation pattern*, autori M. Vladescu si D. T. Vuza, la conferinta Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies ATOM-N, Constanta, august 2014.

7 Conferințe

7.1 Organizări de conferințe

1. Madalina Petcu: Co-organizator local pentru "XIX Symposium on Trends in Applications of Mathematics to Mechanics" , 8-11 Septembrie 2014, Poitiers, Franta
<http://www-math.sp2mi.univ-poitiers.fr/STAMM2014/fr/>
2. Madalina Petcu: Co-organizator pentru sesiunea speciala "Mathematical Modelling and Numerical Methods for Phase-Field Problems", in cadrul "The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications" Madrid, Spania, 7 - 11 Iulie, 2014
<http://www.aims sciences.org/conferences/2014/>
3. E. Mihăilescu: Differentiable Ergodic Theory, Dimension Theory and Stable Foliations, Mathematisches Forschungsinstitut Oberwolfach, 28 September–4 October, 2014
[http : //www.mfo.de/occasion/1440c](http://www.mfo.de/occasion/1440c)
4. Irina Nenciu: Mathematical Aspects of Solid State Physics, Quantum Transport and Spectral Analysis, IMAR, 1–3 Iulie 2014,
<http://imar.ro/ConfGN/speakers.php>
5. Irina Nenciu: Summer School on Stochastic Analysis and Geometry, University of Illinois at Chicago, 30 August – 1 Septembrie 2014,
http://homepages.math.uic.edu/~nenciu/Site/Summer_School_2014.html
6. Radu Gologan: Conferința Natională a SSMR, Iasi 24–26 octombrie 2014
adresa web math.uiacl.ro
7. Alexandru Constantinescu: Organizator al *Meeting on Combinatorial Commutative Algebra*, 8–12 Septembrie 2014, Levico Terme, Italia.
8. Cristian Sminchisescu: IEEE Computer Vision and Patter Recognition (CVPR), 2014, Area Chair.
9. Dan Timotin: 25th International conference on Operator Theory, Timișoara, 30 iunie–5 iulie 2014,
<http://operatortheory25.wordpress.com/>
10. Alina Cojocaru, Alexandru Popa: Second Bucharest Number Theory Day, July 22nd, 2014
<https://dl.dropboxusercontent.com/u/745435/web/NTday2.html>
11. Gheorghe Paun: Twelfth Brainstorming Week on Membrane Computing, Sevilla, Febr. 3-7, 2014
adresa web: <http://www.gcn.us.es/>
12. Costin Vilcu: Geometry Conference, Mulhouse (Franța), 07-11 sept. 2014,
<http://www.math.uha.fr/chevallier/TZ70/TZAng.htm>

13. Dan Vuza: Membru in Comitetul director, in Comitetul stiintific si in comisiile de evaluare ale conferintei 2014 IEEE 20th International Symposium for Design and Technology in Electronic Packaging SIITME, Bucuresti, octombrie 2014, www.siiime.ro
14. M. Epure: The 22nd National School on Algebra: Algebraic and Combinatorial Applications of Toric Ideals, Bucuresti, 1-5 septembrie 2014, <http://math.univ-ovidius.ro/sna/edition.aspx?itemID=8>
15. O. Dumitrescu: *Modern Trends in Gromov-Witten Theory*, summer school la University of Hannover, Germania, Septembrie 8th - Septembrie 12, 2014 (impuneuna cu Nicola Pagani), <https://sites.google.com/site/moderntrendsgwt/>
16. O. Dumitrescu: *Quantum curves, Hitchin systems, and the Eynard-Orantin theory*, workshop la American Institute of Mathematics, Palo Alto, USA, Septembrie 29th - Octobrie 3rd, 2014, (impuneuna cu Motohico Mulase, Sergey Shadrin si Piotr Sulkowski) <http://aimath.org/workshops/upcoming/quantumcurves/>
17. Marian Vâjâitu: Sesiune Comemorativa Dedicata Mentorului Nicolae Popescu, IMAR, 10 Iulie 2014, http://www.imar.ro/organization/activities/archive/conferences_arh_conf.2014_s.php
18. S. Belinschi: a organizat, impreună cu Roland Speicher și Moritz Weber, sesiunea speciala "Free probability and operator theory " la IWOTA, VU University, Amsterdam, Olanda, 14-18 iulie 2014, <http://www.math.vu.nl/~ran/iwota2014/>
19. R. Purice: Membru in Comitetul de Organizare al celui de al 12-lea Colocviu Franco-Roman de Matematici Aplicate, Lyon, 25 - 31 August 2014. <http://cfr2014.univ-lyon1.fr>
20. R. Purice: Coorganizator al Conferintei Internationale *Mathematical Aspects of Solis State Physics, Quantum Transport and Spectral Theory*, Bucuresti, 1-3 Iulie 2014. <http://imar.ro/ConfGN/speakers.php>
21. Liviu Ignat, Anca Macinic, Sergiu Moroianu: Workshop for Young Researchers in Mathematics 4th Edition, Constanta, May 22 - May 23, 2014, <http://math.univ-ovidius.ro/Workshop/2014/WYRM/>
22. Lucian Beznea: organizarea seriei de conferințe lunare IMAR http://www.imar.ro/organization/activities/archive/talksEvents_arh.IMAR.Lectures.2014_s.php
23. Marian Aprodu: Algebraic Geometry Summer Days in Bucharest, București, România, 24 iunie 2014, https://dl.dropboxusercontent.com/u/31273784/web/Algebraic_Geometry_Summer_Days/1st_Edition.html
24. V. Radulescu: International Conference "Recent Advances in PDEs and Applications" (on occasion of Professor Hugo Beirao da Veiga's 70th birthday), Levico Terme (Trento), Italy, February 17-21, 2014, <http://www.science.unitn.it/cirm/PDEs2014.html>

25. V. Radulescu: International Congress in Nonlinear Analysis, Uludag University, Bursa, Turkey, June 23-26, 2014,
<http://agarwal2014.uludag.edu.tr/index.php/scientific-committee>
26. V. Radulescu: Special Session “Discrete and Continuous Boundary Value Problems and Applications”, 10th AIMS Conference in Dynamical Systems, Differential Equations and Applications, Madrid, July 7-11, 2014,
http://aimsciences.org/AIMS-Conference/conf-reg2014/abstracts/ss34_Abstract.pdf
27. V. Radulescu: International Workshop on Nonlinear Analysis and Applications to Economics dedicated to Professor Dušan Repovš on his 60th birthday, University of Craiova, 25 September 2014,
<http://www.math.ucv.ro/repovs2014/>
28. Sergiu Moroianu, Liviu Ornea: Real and Complex Differential Geometry, Universitatea Bucuresti, 8–12 septembrie 2014,
<http://gta.math.unibuc.ro/pages/gvilcu/RCDG/>
29. L. Păunescu, F. Rădulescu: Geometric Group Theory, IMAR, Bucuresti, 28.09.2014–4.10.2014,
http://www.imar.ro/~fradules/Topics_in_GGT.html
30. F. Rădulescu: Workshop de Algebre de Operatori, August 18, 2014, IMAR, Bucuresti
31. R. Diaconescu: 22nd International Workshop on Algebraic Development Techniques (WADT), Sinaia, Romania, 4-7 September 2014.
<http://wadt2014.cs.ovgu.de>
32. Adrian Constantinescu: The 2-st ROMAI Applied and Industrial Mathematics SYMPOSIUM (RoAIMS 2014) - Algebra, Logic, Geometry (with applications), Iassy, Romania, June 12-15, 2014.
http://www.romai.ro/conferintele_romai/roaims2014.html, <http://www.uaiasi.ro/roaims2014/dates.html>
33. Adrian Constantinescu: The 8-th International Conference “Differential Geometry and Dynamical Systems (DGDS-2014)”, Mangalia, September 1-4, 2014.
<http://www.mathem.pub.ro/dept/dgds-14/f-ann1.pdf>
34. Adrian Constantinescu: The 22-th International Conference on Applied and Industrial Mathematics (CAIM 2014) - Algebra, Logic, Geometry (with applications), Faculty of Sciences, “Vasile Alecsandri” University of Bacau, Romania, September 18 - 21, 2014.
http://www.romai.ro/conferintele_romai/caim2014.html, <http://www.ub.ro/stiinte/cercetare/manifestari-stiintifice>, <http://www.euro-math-soc.eu/events>

7.2 Conferințe susținute

1. Adrian Diaconu: *Multiple Dirichlet series*, Conferința: Second Bucharest Number Theory Day, IMAR, 22 Iulie, 2014.
2. Adrian Diaconu: *On Higher Moments of Quadratic Dirichlet L-Functions*, Pure Maths Colloquium, Durham University, Durham U.K., 10 June 2014.

3. Madalina Petcu: *L'analyse numérique des équations de Cahn-Hilliard avec des parois imperméables*, 12eme colloque franco-roumain de mathematiques appliquees, Lyon, August 2014, Franta
4. Madalina Petcu: *A Numerical Analysis of the Cahn-Hilliard Equation with Non-Permeable Walls*, The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Iulie 2014, Madrid, Spania
5. Madalina Petcu: *Exponential Decay of the Power Spectrum and Finite Dimensionality for Solutions of the Three Dimensional Primitive Equations*, The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Iulie 2014, Madrid, Spania
6. Eugen Mihailescu, *On ergodic and dynamical properties of folded systems*, IMAR Monthly Lecture, Bucharest, 26 Feb. 2014.
7. Eugen Mihailescu, *Thermodynamic formalism on a class of fractals with overlaps*, International Conference on Fractal Geometry and Stochastics V, Tabarz, Germany, Mar 24–29, 2014.
8. Eugen Mihailescu, *Dimension and smooth ergodic theory for systems with overlaps*, Logic, Dynamics and their Interactions, Univ North Texas, Denton, USA, Jun 2–6, 2014.
9. Eugen Mihailescu, *Measure-theoretic asymptotic degrees for non-expanding transformations*, Differentiable Ergodic Theory, Dimension Theory and Stable Foliations Workshop, Mathematisches Forschungsinstitut Oberwolfach, Germany, 28 Sep–4 Oct, 2014.
10. Irina Nenciu, *Why do we care about random matrices?*, Undergraduate Math Symposium, University of Illinois at Chicago, Decembrie 2013.
11. Irina Nenciu, *On quantum and stochastic confinement*, 74th Midwest Partial Differential Equations Seminar, University of Illinois at Urbana-Champaign, Octombrie 2014.
12. M. Pilca: *Homogeneous Clifford Structures*, Seminarul de Algebra si Topologie, Universitatea Sophia-Antipolis, Nice, Franta, 3.3.2014.
13. M. Pilca: *Homogeneous Clifford Structures*, Seminarul de Algebra si Geometrie, Universitatea Aix-Marseille, Franta, 6.3.2014.
14. M. Pilca: *Homogeneous Almost Quaternion-Hermitian Manifolds*, Conferinta "Geometrie spinoriala si analiza pe varietati", Centrul de Matematica Luminy, Marsilia, Franta, 10.10.2014.
15. Radu Iordănescu: "The associativity in present mathematics and present physics" - expunere la Interdisciplinary Workshop Devoted to Morphogenesis "On FORM and PATTERN" (Bucuresti, 29-31 mai, 2014).
16. Florin F. Nichita, *On the Yang-Baxter equation*, 30 minute, Mini-symposia: Algebraic Methods in Quantum Field Theory, Sofia, 9 iulie, 2014.
17. Angela Pasarescu, Ovidiu Pasarescu, *Some Applications of Nonstandard Analysis in Mathematical Economics*, RIGA Conference, Bucuresti, iunie 2014

18. Florin F. Nichita si Ion M. Nichita, *Some Problems On Combinatorial Logical Circuits*, poster prezentat la conferinta internationala "Mathematics Days in Sofia", Sofia, Bulgaria, 7-10 iulie, 2014.
19. Florin F. Nichita, *On the Yang-Baxter equation*, 50 minute, seminarul stiintific de la IFIN-HH, Magurele, 25 aprilie, 2014.
20. S. Strătilă, cursuri la *Master Class on Modular Theory of von Neumann Algebras*, Institute of Mathematical Sciences, Chennai (Madras), India, 24.11.2014 – 9.12.2014.
21. Florin Belgun, *Conformal submanifold geometry: structure of curves*, Conferință "Lorentzian and conformal geometry", Greifswald, Germania, 18-21.3.2014.
22. Florin Belgun, *Special classes of non-Kähler metrics in small dimensions*, Workshop "Complex geometry and Lie groups", Torino, Italia, 16-20.6.2014.
23. Florin Belgun, *Invariants of conformal submanifolds*, Conferință "Real and Complex Differential Geometry", Universitatea București, 8-12.09.2014.
24. Radu Gologan, *The impact of mathematical competitions on mathematics*. Congresul Federatiei Concursurilor Internationale de Matematica, Barranquilia, Columbia, 21–24 iulie, conferinta plenara invitata.
25. Radu Gologan, *Spre o tratare elementara a seriilor de puteri; seria sinus*. Conferinta Nationala a Societatii de Stiinte Matematice, Iasi, 24-26 octombrie 2014
26. Cristian Sminchisescu: Academia Regala (KTH) Stockholm
27. Cristian Sminchisescu: Universitatea Oxford
28. Cristian Sminchisescu: European Conference on Computer Vision: Segmentarea Video
29. Cristian Sminchisescu: European Conference on Computer Vision: Challearn: Looking at People
30. Cristian Sminchisescu: INRIA, Grenoble
31. Cristian Sminchisescu: Ecole Normale Supérieure, Paris
32. A.C. Cojocaru, *Primes in arithmetic geometry* Ianuarie 2014 Colocviu, University of Rochester, Rochester, New York State, USA
33. A.C. Cojocaru, *Primes in arithmetic geometry* Ianuarie 2014, Colocviu, Vanderbilt University, Nashville, Tennessee, USA
34. A.C. Cojocaru, *Frobenius fields for elliptic curves* Februarie 2014 Workshop on Frobenius distributions, CIRM, Luminy, France
35. A.C. Cojocaru, *Sieves in arithmetic geometry* Aprilie 2014 Workshop Women In Numbers, Banff International Research Station, Banff, Alberta, Canada
36. A.C. Cojocaru, *Frobenius distributions for elliptic modules*, Iunie 2014 Bateman-Halberstam Conference, University of Illinois at Urbana-Champaign, Illinois, USA

37. A.C. Cojocaru, *Drinfeld modules, Frobenius endomorphisms and CM liftings* Iulie 2014 Bucharest Number Theory Day, IMAR, Bucuresti, Romania,
38. A.C. Cojocaru, *Drinfeld modules, Frobenius endomorphisms and CM liftings*, Septembrie 2014 Statistics and number theory, CRM, Montreal, Canada
39. Vicențiu Pașol, *Multiple Dirichlet Series*, Renyi Institute for Mathematics of the Hungarian Academy, 1-8 september 2014.
40. Vicențiu Pașol, *McMullen inversion formula and related computations*, Workshop for Young Researchers in Mathematics, Constanța, 4th ed., 21-23 May 2014
41. Ionel Popescu *Shy Coupling on Riemannian manifolds* ProbaGeo 2014 at Bordeaux, June 10-12, 2014
42. Ionel Popescu *Refinements of the Free Poincare Inequality* High Dimensional Probability VII, Cargese, May 26-31, 2014
43. Ionel Popescu *Refinements of the Free Poincare Inequality* Sectional AMS meeting, Albuquerque, April 5-6, 2014
44. T. Albu, *Relativization, absolutization, and latticization in Module Theory*, “The Twenty-First Amitsur Symposium in Algebra”, Bar-Ilan University, Ramat Gan (Israel), iunie 2014 – Main Speaker.
45. T. Albu, *Relativization, absolutization, and latticization in Ring and Module Theory*, “Groups, Rings and Group Rings 2014”, a Conference on the occasion of Prof. César Polcino Millies’ 70th birthday, Ubatuba (Brazil), iulie 2014 – Main Speaker.
46. T. Albu, *Topics in Lattice Theory with Applications to Rings, Modules, and Categories*, “XXIII Escola de Álgebra”, Universidade Estadual de Maringá, Maringá, Paraná (Brazil), iulie-august 2014, (5 Lectii) – Mini-curs invitat.
47. T. Albu, *Geodesics in glued Riemannian manifolds*, “Conférence de Géométrie TZ-70”, l’Université de Haute Alsace, Mulhouse (France), septembrie 2014.
48. Radu Gaba: Workshop for Young Researchers in Mathematics, 4th edition, titlu talk: ”A generalization of Ramanujan’s congruence ”
49. Florin Ambro, *On toric log Fano varieties*, Workshop ”Frontiers of rationality”, Longyearbyen, Norvegia, 14-18 iulie 2014
50. Florin Ambro, *An injectivity theorem*, Conference on Positivity, Vanishing Theorems and Applications, Lille, 12-16 mai 2014
51. Cristian Făciu, *On Modeling Instabilities and Pattern Formation in Metals*, On Form an Pattern - An Interdisciplinary Workshop Devoted to Morphogenesis, organizată de Fundația Alexander von Humboldt și Humboldt Club Romania, București, 29 – 31 mai, 2014.

52. Cristian Făciu, *Propagarea undelor în fire ce pot suferi o transformare de fază. Efecte termice.*, Sesiune de comunicări științifice dedicată Academicianului Nicolae Cristescu la împlinirea vârstei de 85 de ani, Facultatea de Matematică și Informatică din București, 20 iunie, 2014.
53. Vasile Drăgan, *Control problems for systems modeled by singularly perturbed Ito differential equations*, Centre de Recherche en Automatique de Nancy (CRAN), France, 22-28 Iunie 2014.
54. Vasile Drăgan, *On the bounded and stabilizing solution of a generalized game theoretic Riccati differential equation with periodic coefficients of stochastic control*, Symposium on Differential Equations and Difference Equations, SDEDE 2014, Conference Center Hotel Hohenburg in Homburg/Saar, Germany, 5-8 Septembrie 2014.
55. Cristian Cobeli, *On the frontier between order and chaos in modular mappings*, A XVIII-a Conferință Națională a Societății de Științe Matematice din România, Iași, 24 Octombrie 2014, Secțiunea *Cercetare*.
56. Cristian Cobeli, *Două triumphiuri peste trei decenii*, A XVIII-a Conferință Națională a Societății de Științe Matematice din România, Iași, 26 Octombrie 2014, Secțiunea *Didactică*.
57. Bogdan Udrea: *Some rigidity results for generalized q -gaussian algebras*, Wabash mini-conference, IUPUI Indianapolis, September 2014.
58. Bogdan Udrea: *Some rigidity results for generalized q -gaussian algebras* (invited talk), AMS Joint Meetings, University of Wisconsin, Eau Claire, September 2014.
59. Bogdan Udrea: *Some rigidity results for generalized q -gaussian algebras* (invited talk), Operator Theory Seminar, University of Iowa, Iowa City, May 2014.
60. Bogdan Udrea: *Some rigidity results for generalized q -gaussian algebras* (invited talk), Analysis Seminar, Purdue University, West Lafayette, April 2014.
61. Bogdan Udrea: *Inner amenability for groups and central sequences in factors* (invited talk), AMS Joint Meetings, Baltimore, January 2014.
62. Dan Timotin: *An extremal problem for characteristic functions*, International Workshop on Operator Theory and its Applications, Bangalore, 16–20 decembrie 2013.
63. Dan Timotin: *Schur coupling and other equivalence relations for operators on a Hilbert space*, Workshop on Operator Theory, Complex Analysis, and Applications, Lisabona, 19–21 iunie 2014.
64. A. Popa, *The trace formula for Hecke operators on congruence subgroups*, Workshop for Young Researchers in Mathematics, May 2014, Constanta
65. A. Popa, *On the trace formula for Hecke operators on congruence subgroups*, Automorphic L-functions Workshop, October 29-30, Lille
66. F. P. Boca, *The distribution of rational numbers and measure-preserving transformations*, IMAR Monthly Lectures, November 12, 2014.

67. F. P. Boca, A. A. Popa, A. Zaharescu, *Irregularities in the distribution of hyperbolic lattice angles*, Special Session on *Connections in Number Theory*, A.M.S. Sectional Meeting, University of North Carolina Greensboro, November 8, 2014.
68. F. P. Boca, *Non-commutative tori*, Math 499 (Introduction to Graduate Mathematics) Lecture, Department of mathematics, University of Illinois Urbana-Champaign, October 22, 2014.
69. F. P. Boca, *C*-algebras and continued fractions*, Ergodic Theory and Dynamical Systems Seminar, University of Bristol, October 9, 2014.
70. F. P. Boca, *Irregularities in the distribution of Euclidean and hyperbolic angles*, Math Colloquium, Cardiff University, October 8, 2014.
71. F. P. Boca, *Norm estimates of almost Mathieu operators*, Mini-workshop in Operator Algebras, IMAR, August 19, 2014.
72. F. P. Boca, *Irregularities in the distribution of lattice angles (Euclidean vs. hyperbolic)*, Second Bucharest Number Theory Day, July 22, 2014.
73. F. P. Boca, *Non-randomness of the distribution of rational numbers (Stern-Brocot vs. Farey)*, Math Colloquium, Eastern Illinois University, April 8, 2014.
74. F. P. Boca, *Irregularities in the distribution of lattice angles (Euclidean vs. hyperbolic)*, Math Colloquium, Purdue University, March 4, 2014.
75. C. Joița, *Spatii complexe cu locul singular prescrist*, Conferinta "Gheorghe Bucur la 75 de ani", IMAR, 28 ianuarie 2014.
76. A.I. Bonciocat, *Aproximări de forme Dirichlet pe grafuri*, Conferinta "Gheorghe Bucur la 75 de ani", IMAR, 28 ianuarie 2014.
77. N.C. Bonciocat, *Some Applications of the Newton Polygon Method*, Workshop for Young Researchers in Mathematics (WYRM4), ediția a patra, 22–23 mai 2014, Constanța, România
78. Gabriel Baditoiu, *Classification of pseudo-Riemannian submersions with totally geodesic fibres from pseudo-hyperbolic spaces*, Conferinta 'Real and complex differential geometry', Bucuresti, 8-12 septembrie 2014. <http://gta.math.unibuc.ro/pages/gvilcu/RCDG/index.html>
79. Cîmpean Iulian, *On Bochner-Kolmogorov theorem*, A 17-a Conferinta a Societatii de Probabilitati si Statistica din Romania 25-26 aprilie 2014,
80. Cîmpean Iulian, *On Bochner-Kolmogorov theorem*, Workshop for Young Researchers in Mathematics, May 22 - May 23, 2014,
81. Cîmpean Iulian, *Quasimartingales of Markov processes*, Colloque franco-roumain de mathématiques appliquées, Lyon, 25-30 août 2014.
82. Daniel Belțiță, *Inverse-closed algebras of integral operators*, The 25th International Conference on Operator Theory, Universitatea de Vest din Timișoara, România, 30 iunie – 5 iulie 2014.

83. Daniel Beltiță, *Geometric aspects in representation theory of unitary groups*, Géométrie et dynamiques des espaces de Finsler, Centre International de Rencontres Mathématiques, Luminy, Franța, 16–20 iunie 2014.
84. Beltiță, Ingrid, *Weyl-Pedersen calculus for nilpotent Lie groups*, Banach Centre Conference "Probabilistic methods of Harmonic Analysis", 26 aprilie-3 mai 2014.
<http://bcc.impan.pl/14PAHA/>
85. Beltiță, Ingrid, *The magnetic Weyl calculus: a Lie theoretic point of view*, Seminario de Teora Espectral, Pontificia Universidad Católica de Chile, 11 septembrie 2014.
<http://www.mat.uc.cl/graikov/seminar.html>
86. Daniel Matei, *Graphs, groups, monodromy*, Seminarul de Teoria Numerelor si Geometrie Algebrica, KU Leuven, Belgia, octombrie 2014.
87. Daniel Matei, *Braids, configuration spaces, and cohomology*, Seminarul de Geometrie de la Universitatea din Luxembourg, iunie 2014.
88. C. Anghel, *Horrocks theory and applications*, Workshop for Young Researchers in Mathematics, Constanta 22-23 mai 2014.
89. Liviu Florin Dinu, *Two significant models of gasdynamic interactions*, Newton Institute for Mathematical Sciences, Cambridge UK, conferinta **plenara** in cadrul Semestrului [FRB] Free Boundary Problems and Related Topics
<http://www.newton.ac.uk/seminar/20140702140015002>, miercuri 2 iulie 2014, 14h–15h.
90. C. Cazacu: 13/06/2014 - Multipolar Hardy inequality with boundary singularities, Annual Project Meeting MTM2011-29306, BCAM-Basque Center for Applied Mathematics, Bilbao, Spain.
91. C. Cazacu: 22/05/2014 - New estimates for the best constant of a Hardy-type inequality with multisingular potentials, Workshop for Young Researchers in Mathematics, University of Constanta, Romania.
92. Delia Ionescu-Kruse, *A new two-component system modelling shallow-water waves*, The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, 7-11 iulie 2014.
93. Delia Ionescu-Kruse, *Instability of edge waves along a sloping beach*, Le 12ème Colloque Franco-Roumain de Mathématiques Appliquées, Lyon, France, 25-30 august 2014.
94. Costin Vilcu, *Farthest points on most Alexandrov surfaces*, 4th Workshop for Young Researchers in Mathematics (Constanța), 23.05.2014.
95. Costin Vilcu, *Pliages et dépliages de polyèdres convexes*, Mulhouse (Franța), 22.09.2014.
96. Costin Vilcu, *Sur le théorème des trois perpendiculaires*, Mulhouse (Franța), 23.09.2014.
97. Liviu Ornea: *Homogeneous LCK manifolds*, Seminarul săptămînal de la Laboratorul de geometrie algebrică "Feodor Bogomolov", Higher School of Economics, Moscova, aprilie 2014.

98. Liviu Ornea: *O teoremă de scufundare în geometria complexă*, Academia română, Secția de matematică, 2 iunie 2014.
99. Liviu Ornea: *O teoremă de scufundare în geometria complexă*, Mini-workshop, Timișoara 26.06.2014
100. Liviu Ornea: *O teoremă de scufundare în geometria complexă*, Seminarul de geometrie, Facultatea de Matematică din Cluj, 28.11.2014
101. Vasile Brinzanescu, *On the relationship between D'Angelo q -type and Catlin q -type*, Conf. lunara IMAR, octombrie 2014.
102. Vasile Brinzanescu, *Pseudoconvexity and d -bar problem*, Conf. Univ. Mulhouse France, septembrie 2014.
103. Vasile Brinzanescu, *Moduli of vector bundles on elliptic fibrations*, Dept. Math. Genova University, iunie 2014.
104. Liana David, *On cotangent manifolds, complex structures and generalized geometry*, prezentare (de 50 minute) la workshop-ul *Real and Complex Differential Geometry*, Bucuresti, 8-12 septembrie 2014.
105. L. Badea, *Méthodes multi-niveau et multigrille pour quelques problèmes non linéaires*, 12e Colloque Franco-Roumain en Mathématiques Appliquées, l'Université de Lyon, France, 25-30 août 2014.
106. L. Badea, *Multilevel methods for variational and quasi-variational inequalities*, 22nd Conference of Industrial and Applied Mathematics - CAIM 2014 - 'Vasile Alecsandri' University of Bacau, Romania, September 18-21, 2014.
107. L. Badea, *On the convergence rate of the multigrid methods for constrained minimization problems*, Conference dedicated to Professor Nicolai D. Cristescu on his 85th birthday, University of Bucharest, June 20, 2014.
108. M. Vladescu, D. T. Vuza, *Automated platform for determination of LEDs spatial radiation pattern*, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, Constanta, august 2014.
109. D. T. Vuza, R. Frosch, M. Gugganig, M. Vladescu, *Test and Measurement Procedures for RFID Systems*, 2014 IEEE 20th International Symposium for Design and Technology in Electronic Packaging SIITME, Bucuresti, octombrie 2014.
110. D. T. Vuza, M. Vladescu, L. Pascu, *Automated Platform for Characterization of RFID Reader Antennas*, 2014 IEEE 20th International Symposium for Design and Technology in Electronic Packaging SIITME, Bucuresti, octombrie 2014.
111. L. Leuştean, *An invitation to proof mining*, Topics in Geometric Group Theory, IMAR, Bucuresti, 29.09 - 05.10 2014
112. L. Leuştean, *Effective results on the asymptotic behavior of nonexpansive iterations*, Logic Colloquium 2014, Viena, 14.07 - 19.07.2014.

113. L. Leuştean, *An invitation to proof mining II (Effective results on the mean ergodic theorem)*, Logic in Computer Science Seminar, Bucuresti, 22.05.2014.
114. L. Leuştean, *An invitation to proof mining I*, Logic in Computer Science Seminar, University of Bucharest, 16.05.2014.
115. L. Leuştean, *Effective methods in geodesic spaces*, IRTG 1529 Research Seminar "Proof Mining and Nonlinear Analysis", Technische Universität Darmstadt, 26.02 - 28.02.2014.
116. Andrei Neguţ: DAHA, Hall Algebras, Knot Theory and Combinatorics Workshop, Paris, 17-20.11.2014
117. Andrei Neguţ: Kyoto Geometric Representation Theory Conference, 28.07.2014
118. Andrei Neguţ: University of Tokyo Special Seminar Series, 13-16.07.2014
119. Andrei Neguţ: Jerusalem Mirror Symmetry Week, 22.06.2014
120. Andrei Neguţ: AMS-IMU Second Joint Meeting, 18.06.2014
121. I. Gruais and D. Poliřevski, *Homogénéisation du système couplé Darcy-Stokes*, 12-ème Colloque Franco-Roumain de Mathématiques Appliquées, Lyon, August 25-30, 2014
122. I. Gruais, D. Poliřevski and F.-A. Stanesco, *The effective permeability of fractured porous media subject to the Beavers-Joseph contact law*, 12-ème Colloque Franco-Roumain de Mathématiques Appliquées, Lyon, August 25-30, 2014
123. Prabir Daripa and Gelu Paşa, *A new Saffman-Taylor growth rate formula*, Bulletin of the American Physical Society, 67th Annual Meeting of the APS, *Division of Fluid Dynamics*, Volume 59, Number 20, Sunday - Tuesday, November 23 - 25, 2014; San Francisco, California.
124. Prabir Daripa and Gelu Paşa, *On the flow of an Oldroyd-B fluid with equal time constants in a Hele-Shaw cell*, Tenth Workshop on Mathematical Modelling of Environmental and Life Sciences Problems, October 16-18, 2014, Constanta, Romania.
125. Marius Buliga, Louis H. Kauffman, *Chemlambda, universality and self-multiplication*, Fourteenth International Conference on the Synthesis and Simulation of Living Systems, New York, NY, USA, July 30th – Aug 2nd 2014
126. Marius Buliga, *Comment introduire la dissipation en dynamique hamiltonnienne et l'appliquer l'endommagement*, Laboratoire de Mécanique de Lille , 12 Juin 2014.
127. Marius Buliga, *Hamiltonian systems with dissipation*, Seminaire d'Alembert, Institut d'Alembert, UMR CNRS 7190 UPMC, 17 Juin 2014.
128. Marius Buliga, *Internet of Things not Internet of Objects*, 4th Offtopicarium, Ja. 2014, online
129. Olivia Dumitrescu, *Quantum curves and topological recursion for rank 2 meromorphic Higgs bundles*, American Institute of Mathematics, Palo Alto, Septembrie 2014.

130. Olivia Dumitrescu, *Topological recursion for Hitchin fibrations of rank 2 and quantum curves*, Quantum Curves and Quantum Knot Invariants, Banff International Research Station, Iunie 2014.
131. Olivia Dumitrescu, Mini-curs: *Quantization of spectral curves of Higgs bundles via a B-model topological recursion*, The Geometry, Topology and Physics of Moduli Spaces of Higgs Bundles, Summer School IMS, the National University of Singapore, Iulie 2014
132. Olivia Dumitrescu, Mini-curs: *Interplay between differential equations, integrable systems, and algebraic geometry*, Undergraduate Course, Kobe Summer School, Kobe University, Iulie 2014
<http://www2.kobe-u.ac.jp/~mhsaito/events/mathmulaseug-1.pdf>
133. Olivia Dumitrescu, Mini-curs: *A mathematical theory of quantum curves*, Graduate Course, Kobe Summer School, Kobe University, Iulie - August 2014
<http://www2.kobe-u.ac.jp/~mhsaito/events/mathmulaseg-1.pdf>
134. Dan Tiba, *ON THE APPROXIMATION OF VARIATIONAL INEQUALITIES plenary lecture*, Xi'an Jiaotong University, International Workshop on Variational and Hemivariational Inequalities: Theory, Numerics and Applications, June 28-30, 2014.
135. Dan Tiba, *Chair of invited session*, Seul ICM 2014, 20.08.2014.
136. Dan Tiba, *Local parametrization and generalized solutions for implicit functions (plenary talk)*, CAIM 2014, September, 18-21, 2014.
137. Dan Tiba, *Optimal control approaches to a bottleneck problem and to optimal investment*, V Hurwicz Workshop on Mechanism Design Theory, Banach Center, Warsaw, November 14-15 2014.
138. G. Nenciu, *On essential self-adjointness and stochastic completeness for second order elliptic PDO in $\Omega \subset \mathbf{R}^n$* , Aarhus University, Denmark.
139. B. Berceanu: *Hilbert's third problem*, ASSMS Lahore, decembrie 2013;
140. B. Berceanu: *Permuting points in the plane and space*, LUMS Lahore, martie 2014;
141. B. Berceanu: *Braids in CP^n* , Conference "Braids and Arithmetic"-Luminy, octombrie 2014.
142. R. Rasdeaconu: *Counting real rational curves on $K3$ surfaces*, "Moduli spaces of real and complex varieties", Angers, Franța, 2 iunie-6 iulie 2014.
143. Radu Pantilie, *The Penrose transform in quaternionic geometry*, The 10th Differential Geometry Day and The Differential Geometry Workshop, The Centre for Mathematical Sciences, Lund University, Suedia, 14-16 mai 2014.
144. Mihai Pascu, *On the characterization of Gelfand-Shilov-Roumieu spaces*, Probabilistic Aspects in Harmonic Analysis, Bedlewo, Poland, 26 April-3May, 2014.
145. Mihai Pascu, *Spaces of rapidly decreasing functions - characterization theorems*, 12e Colloque Franco-Roumain de Mathematiques Appliquees, Lyon, France, 25-30 Aout, 2014.

146. Denisa Stancu-Dumitru, *The Asymptotic Behavior of Solutions to Nonhomogeneous Eigenvalue Problems in Orlicz-Sobolev Spaces*, Workshop for Young Researchers in Mathematics, May 22-23, 2014, "Ovidius" University of Constanța, Constanța, România.
147. Denisa Stancu-Dumitru, *The limiting behavior of solutions to inhomogeneous eigenvalue problems in Orlicz-Sobolev spaces*, 12e Colloque Franco-Roumain de Mathématiques Appliquées, August 25-30, 2014, l'Université de Lyon, Lyon, France.
148. Mihai D. Staic, *Secondary Hochschild Cohomology*, AMS Spring Central Sectional Meeting Texas Tech University, Lubbock, TX April 11-13, 2014.
149. Serban Teodor Belinschi, *Linearization and Distributions of Non-commuting Random Variables*, Colloquium of the Department of Mathematics, Wayne State University, Detroit, MI, USA, 20 octombrie 2014.
150. Serban Teodor Belinschi, *The linearization trick*, The 12th East Coast Operator Algebras Symposium, Fields Institute, Toronto, ON, Canada, 12 octombrie 2014.
151. Serban Teodor Belinschi, *Outliers in the spectrum of deformed unitarily invariant matrix models*, International Conference on Quantum Probability and Related Topics, Chungbuk National University, Cheongju, Korea, 23 august 2014.
152. Serban Teodor Belinschi, serie de trei prezentari:
- *The analytic transforms of free probability*
 - *Noncommutative functions: from functional calculus to non-commutative distributions*
 - *Applications of noncommutative functions*
- Texas A&M University, College Station, TX, USA, 22–24 iulie 2014.
153. Serban Teodor Belinschi, *On the free convolution with an operator-valued semicircular: an exercise following Biane*, Free probability and the large N limit, IV, UC Berkeley, Berkeley, CA, USA, 28 martie 2014.
154. Mihai Prunescu, *About a surprizing computer program of Matthias Müller*, Geometry Conference in honour of Prof. Tudor Zamfirescu seventieth birthday, Mulhouse, France, September 07 - 11, 2014.
155. Constantin Năstăsescu, *Gradabilitate pe inelul de polinoame relativ la un grup abelian oarecare*, Universitatea din Almeria, mai 2014.
156. Constantin Năstăsescu, *Teorema Popescu-Gabriel - 50 de ani de la publicare*, Sesiunea Comemorativă Dedicată Mentorului Nicolae Popescu, Institutul de Matematică "Simion Stoilow" al Academiei Române, București, 10 iulie 2014.
157. F. Panaite, *Some properties of Brzezinski crossed products*, Seminar "Georges Reeb" (Algebra si Geometrie Diferentiala), Université de Haute Alsace (UHA), Mulhouse, Franta, Martie 2014

158. F. Panaite, *Twisted tensor products of algebras*, Seminar Algebra, Universitatea din Ferrara, Italia, Septembrie 2014
159. F. Panaite, *Pseudosymmetric braided categories*, Seminar Algebra, Universitatea din Padova, Italia, Octombrie 2014
160. F. Panaite, *Constructions by twisting*, in cadrul colocviului "Hom-algebras", Monastir, Tunisia, Octombrie 2014
161. I. Malakhova-Ziablova, G. Panasenko, R. Stavre, *Variational and asymptotic analysis of a viscous fluid-3D thin plate interaction problem*, Colloque Inter'Actions, Lyon, France, 19-23 mai 2014.
162. G. Panasenko, R. Stavre, *Asymptotic expansion of the solution of the Kelvin-Voigt viscoelasticity equation for a thin stratified strip*, 12e Colloque Franco-Roumain de Mathématiques Appliquées, Lyon, France, 25-30 august 2014.
163. Radu Purice, *Spectral edge regularity for a class of integral operators*, Mini-Workshop Algebre de Operatori, IMAR 19 August 2014; organizat de Florin Boca si Florin Radulescu.
164. Ursu Vasile *Asupra unei directii de studiu al Buclelor Moufang Nilpotente*, seminarul de algebră, geometrie și topologie al Institutului de Matematică și Informatică al AȘM, 11 martie 2014.
165. S. Burciu: "*Group actions on tensor categories*", University of Antwerp, June 17, 2014, Antwerp, Belgium.
166. S. Burciu: "*On the Grothendieck ring of a semisimple Drinfeld double*", Hasselt University, June 26, 2014, Hasselt, Belgium.
167. S. Burciu: "*On the Grothendieck groups of equivariantized fusion categories*", Erwin Schrödinger International Institute for Mathematical Physics (ESI), February 14, 2014, Wien, Austria.
168. L. Ignat, *Long-time behavior for nonlocal problems*, Workshop for Young Researchers in Mathematics, Contanta May, 22 – 23, 2014,
169. L. Ignat, *About nonlocal evolution equations*, Basque Center for Applied Mathematics, Bilbao, Spain, 12/06/2014
170. L. Ignat, *About nonlocal evolution equations*, Universite de Evry, 5/06/2014
171. L. Ignat *Long-time Behaviour for Nonlocal Problems*, The 10th AIMS Conference on Dynamical Systems Differential Equations and Applications, Madrid, 11/07/2014,
172. L. Ignat, *Long-time behavior for nonlocal problems*, 12e Colloque Franco-Roumain de Mathématiques Appliquées Lyon, 25-30 Aout 2014
173. Lucian Beznea: *Negative definite functions and nonlinear PDEs of measure-valued branching processes*, University of Göteborg, Sweden, 20 mai 2014

174. Lucian Beznea: *Branching processes and stochastic fragmentation equation*, la "7th International Conference on Stochastic Analysis and its Applications", Seoul, South Korea, 6-11 august 2014
175. Lucian Beznea: *Markov processes on the Lipschitz boundary for the Neumann and Robin problems*, la "Dirichlet Form Theory and its Applications", Oberwolfach, 19-25 octombrie 2014
176. Stefan Papadima, *Affine geometry, diophantine equations, and topology*, Academia Romana, 28 feb 2014.
177. Stefan Papadima, *Stratified geometry of representation varieties*, IFIN Magurele, 28 mar 2014.
178. Stefan Papadima, *Milnor fibrations of arrangements and modular inequalities*, Univ. di Pisa (Italia), 29 mai 2014.
179. Stefan Papadima, *Milnor fibrations of arrangements and modular inequalities*, Univ. de Nice (Franta), 10 iun 2014.
180. Marian Aprodu, *Szygies and geometry of curves*, KAIST CMC School on Algebraic Geometry, Daejeon, Corea de Sud, 18-21 martie 2014.
181. Marian Aprodu, *Ulrich bundles on $K3$ surfaces*, $K3$ surfaces and their moduli, Schiermonnikog, Olanda, 4-9 mai 2014.
182. Marian Aprodu, *Ulrich bundles on $K3$ surfaces*, Positivity, Vanishing theorems and applications, Lille, Franța, 12-16 mai 2014.
183. Marian Aprodu, *Ulrich bundles on $K3$ surfaces*, Szygies and moduli of curves, Milano, Italia, 20-21 mai 2014.
184. Marian Aprodu, *On polynomial equations and vector bundles*, On Form and Pattern, Humboldt Kolleg, București, România, 29-31 mai 2014.
185. Vicențiu D. Rădulescu, *Nonstandard bifurcation phenomena in PDEs with variable exponent*, University of East Anglia, Norwich, Applied Maths Research Seminars, 20.01.2014.
186. Vicențiu D. Rădulescu, *Nonlinear eigenvalue problems for nonhomegenous differential operators*, Isaac Newton Institute for Mathematical Sciences, Cambridge, 22.01.2014.
187. Vicențiu D. Rădulescu, *Anisotropic phenomena described by nonhomogeneous differential operators*, Cardiff University, School of Mathematics, 29.01.2014.
188. Vicențiu D. Rădulescu, *Low- and high-energy solutions of nonlinear elliptic oscillatory problems*, Department of Mathematics, Swansea University, 30.01.2014.
189. Vicențiu D. Rădulescu, *Perturbation effects for nonlinear elliptic oscillatory equations*, University of Nottingham, School of Mathematical Sciences, Algebra & Analysis Seminar, 31.01.2014.

190. Vicențiu D. Rădulescu, *Nonlinear problems described by nonhomogeneous differential equations*, École de Recherche CIMPA & Workshop EDP Non Liné aires: Étude Théorique et Numérique, Tanger, 5-17 Mai 2014.
191. Vicențiu D. Rădulescu, *Variational analysis of some problems with variable exponent*, Dipartimento di Matematica, Università di Pisa, 14 Mai 2014.
192. Vicențiu D. Rădulescu, *Analysis on the Sierpinski gasket*, Mini-symposium Recent Trends in Nonlinear Analysis and its Applications, 8th European Conference on Elliptic and Parabolic Problems, Gaeta, May 26-30, 2014.
193. Vicențiu D. Rădulescu, *Nonlinear elliptic problems on the Sierpinski gasket*, Recent Trends in Nonlinear Partial Differential Equations and Applications Celebrating Enzo Mitidieri's 60th Birthday, University of Trieste, 28-30 May 2014.
194. Vicențiu D. Rădulescu, *A sharp characterization on fractal sets*, International Workshop on Nonlinear Analysis and Applications to Economics Dedicated to Professor Dusan Repovš on his 60th birthday, Craiova, 25 September 2014.
195. Vicențiu D. Rădulescu, *Variational analysis on fractals*, Recent Trends on Nonlinear Phenomena, Reggio Calabria, 5-7 November 2014.
196. Vicențiu D. Rădulescu, *Morse theory and multiple solutions of Robin problems*, Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia, 1 December 2014.
197. Sergiu Moroianu, *IMAR monthly lecture*, Bucuresti, 18 martie 2014.
198. Sergiu Moroianu, *Positivity of the renormalized volume of quasi-fuchsian hyperbolic 3-manifolds*, CIRM Marsilia, 6–10 octombrie 2014.
199. R. Diaconescu, *From universal logic to computer science, and back*, invited talk at 11th International Colloquium on Theoretical Aspects of Computing, București, Romania, September 2014.
200. R. Diaconescu, *Composition of specification modules: recent developments*, 2014 Conference on Computational Intelligence and Software Engineering (CiSE 2014), Beijing, China, July 2014.
201. F. Rădulescu: Topics in Geometric group theory, IMAR, Bucharest, September 2014
202. F. Rădulescu: Invited Plenary Speaker, 25-th Conference on Operator Theory, Timisoara, Romania, June 30-July 4, A Theory of Gamma-invariant vectors
203. F. Rădulescu: Invited Plenary Speaker, Non Commutative Geometry and Mathematical Physics, Scalea Italy, June 16-20, 2014, A Theory of Gamma-invariant vectors
204. Seminar Speaker, Geometric Group Theory Seminar, University of Vienna, Guest Prof. G. Arzhantseva "Hecke operators, discrete series unitary representations and Operator Algebras" May 7, 2014

205. Seminar Speaker, Geometric Group Theory, Univ of Geneve, April 2014, Guest Prof T. Nagnibenda "Hecke operators"
206. Cezar Joița, *Analytic convexity - a short introduction*, Summer School in Cologne: Topics in Complex Analysis, Cologne, 14-16 iulie, 2014.
207. Viorel Nitica, *About the semigroup problem*, 48-th Spring Topology and Dynamics Conference, University of Richmond, Richmond Virginia, March 2014
208. Viorel Nitica, *Open transitivity for Heisenberg group extensions*, American Mathematical Society, Spring Central Sectional Meeting, Texas Tech University, Lubbock, TX, April 2014
209. Viorel Nitica, *Stable transitivity of Heisenberg group extensions of hyperbolic systems*, Recent Progress in Dynamical Systems and Related Topics, Banff International Research Station for Mathematical Innovation and Discovery (BIRS), Canada, August 2014
210. Mihai Mihailescu, *Eigenvalue problems in Orlicz-Sobolev spaces for rapidly growing operators in divergence form*, Workshop for Young Researchers in Mathematics, May 22-23, 2014, Ovidius University of Constanta, Constanta, Romania.
211. Laurentiu Maxim, *Characteristic classes of toric varieties*, la conferinta Special Session on "New Trends in Toric Varieties" at the Central Fall Sectional Meeting – Eau Claire, WI – 09/2014
212. Laurentiu Maxim, *L^2 -Betti numbers of hypersurface complements*, la conferinta "2nd Franco-Japanese-Vietnamese Symposium on Singularities" – Sapporo, Japan – 08/2014
213. Laurentiu Maxim, *L^2 -Betti numbers of hypersurface complements*, la conferinta "Knots and Low Dimensional Manifolds", A Satellite Conference of Seoul ICM 2014 – Busan, Korea – 08/2014
214. Laurentiu Maxim, *Intersection spaces, perverse sheaves and type IIB string theory*, la conferinta "Analysis and Topology in Interaction" – Cortona, Italy – 06/2014
215. Laurentiu Maxim, *Characteristic classes of Hilbert schemes via symmetric products*, la conferinta "Algebraic Geometry Summer Days in Bucharest" – Bucharest, Romania – 06/2014
216. Laurentiu Maxim, *L^2 -Betti numbers of hypersurface complements*, la conferinta "Workshop for Young Researchers in Mathematics" – Constanta, Romania – 05/2014
217. Laurentiu Maxim, *Intersection spaces, perverse sheaves and type IIB string theory*, la conferinta Special Session on "Singularities and Physics" at the 2014 Southeastern Spring Sectional Meeting – Knoxville, TN – 03/2014
218. Adrian Constaninescu, *Gel'fand topologies on spectra of complex subalgebras and some applications in Hilbert 14-th Problem area*, conferinta la "Riemannian Geometry and Applications to Engineering and Economics (RIGA 2014)", University of Bucharest-150 years and Technical University of Civil Engineering Bucharest, May 19-21, 2014.

219. Adrian Constantinescu (in colaborare cu C. Udriste si S. Pricopie), *Some algebraic and C-Lie group structures on Descartes Folium*, lectie invitata ("keynote lecture") la "The 8-th International Conference of "Differential Geometry and Dynamical Systems (DGDS 2014)", Mangalia, September 1-4, 2014.
220. Adrian Constantinescu (joint work with C. Udriste si S. Pricopie), *Some classic and special Lie structures on some algebraic plane cubic curves with singularities*, conferinta plenara ("invited plenary lecture") la "The 22-th International Conference on Applied and Industrial Mathematics (CAIM 2013)" - Algebra, Logic and Geometry (with applications), University of Bacau, September 18-21, 2014.

8 Alte activități

8.1 Conducere granturi

- Radu Purice a continuat coordonarea impreuna cu Doamna Genevieve Raugel (Universitatea Paris Sud) a **Laboratorului European Asociat CNRS Mathematique et Modelisation** (<http://www.imar.ro/math-mode/>).
- Cristian Sminchisescu: Modele structurate pe scara larga pentru recunoasterea vizuala (1.8 ME)
- Laurentiu Leustean: Grantul IDEI PN-II-ID-PCE-2011-3-0383 (Octombrie 2011 - Octombrie 2015)
Proof mining in metric analysis, geometric group theory and ergodic theory
- Marius Leordeanu: Director de proiect al grantului de IDEI, PN-II-ID-PCE-2012-4-0581.
- Sebastian Burciu: directorul grantului de tinere echipe PN-II-RU-TE -168/2012.
- Liviu Ignat: Proiect IDEI PN-II-ID-PCE-2011-3-0075
- Bogdan Ichim: PN-II-RU-TE-2012-3-0161
- Dorin Popescu: PNII ID-PCE-2011-1023 al Ministerului Educatiei si Cercetarii
- Marian Aprodu: CNCS Grant PN-II-PCE-2011-3-0288
- Dorin Cheptea: Grant CNCS-UEFISCDI, proiect number PN-II-RU-TE-2012-3-0492.
- Dan Tiba: Grant 0211/2011, CNCS Romania
- Ionel Popescu: UEFISCDI - Romanian Young Researchers - *Randomness, Geometric Problems and Functional Inequalities*, 2011-2014
- Cristian Bereanu: Director grant TE-2011-3-0157
- Sergiu Moroianu: grant RU-TE-2011-3-0053, "Quantum invariants in hyperbolic geometry". 2012-2014.

- R. Diaconescu *Universal logic methods for computer science*, PN-II-ID-PCE-2011-3-0439, finanțat de UEFISCDI.
- F. Rădulescu: *Algebre de Operatori si aplicatii in Teoria Numerelor*, Idei 2012, PN-II-ID-PCE-2012-4-0201
- Mihai Mihailescu: *Variable Exponent Analysis: Partial Differential Equations and Calculus of Variations* (CNCSIS-UEFISCSU, project number PN-II-ID-PCE-2012-4-0021), 02 September 2013-30 September 2016.
- Daniel Belțiță este director al proiectului *Calcul operatorial pentru reprezentări de grupuri Lie, cu aplicații la ecuații cu derivate parțiale si fizica cuantică*, Programul “Idei”, cod proiect: PN-II-ID-PCE-2011-3-0131.
- Florin Ambro: *Inele log canonice (PN-II-RU-TE-2011-3-009)*, RU Tinere Echipe 2011-2014, 703290 lei, finanțat de CNCS - UEFISCDI
- Dan Timotin este directorul proiectului *Teoria operatorilor multidimensională. Spații cu nucleu reproducător, funcții necomutative, probleme de momente și rezultate de dilatare generalizată*, având codul PN-II-ID-PCE-2011-3-0119, perioada 2011–2015.
- Cristian Sminchisescu: *Metode pentru recunoasterea tri-dimensională a obiectelor* (350 KE)
- T. Zamfirescu: director de proiect, CNCS - UEFISCDI - proiect PN-II-ID-PCE-2911-3-0533
- Vasile Brinzanescu: Director de grant PN-II-ID-PCE-2012-4-0156 (intre 2013-2015, 27 de luni).
- Liana David: director al grantului CNCS “Structuri hermitiene si cuaternionice pe varietati si aplicatii” (codul grantului: PN-II-ID-PCE-2011-3-0362).
- E. Mihăilescu: grant de cercetare la Institut des Hautes Études Scientifiques, Bures-sur-Yvette, Paris, France, Aug-Sep 2014.
- E. Mihăilescu: grant de la Mathematisches Forschungsinstitut Oberwolfach (Germany), pentru organizarea workshop-ului ”Differentiable Ergodic Theory, Dimension Theory and Stable Foliations”, Oberwolfach, 28 Sep–4 Oct, 2014.
- Irina Nenciu: *CAREER: Long-time asymptotics of completely integrable systems with connections to random matrices and partial differential equations (DMS-1150427)*, grant de cercetare, 2012–2017, \$500000, National Science Foundation, USA.
- Irina Nenciu: *Midwest Partial Differential Equations Seminar (DMS-1216549)*, grant pentru organizarea unei conferințe bianuale, 20012–2015, \$48000, National Science Foundation, USA.
- Alina Cojocaru: Simons Collaboration Grant, 2014-2019 - Award Number 318454, USD 35 000.

- Liviu Pănescu: Director de proiect al grantului de cooperare bilaterală Austria-Romania, *Geometry and analysis of linear soficity*, GALS.
- N.C. Bonciocat responsabil temă de cercetare, grant “*Méthodes effectives dans l’étude des polynômes et des équations diophantiennes*”, LEA-Math Mode.
- Corina Calinescu: Principal investigator pentru grantul ”Collaboration Grants for Mathematicians”, Simons Foundation, 2014-2019.
- Liviu Ornea: grant IDEI, PN-II-ID-PCE-2011-3-0118
- Liana David: are o bursa Humbolt, in cadrul careia am efectuat un stagiul de cercetare de 3 luni in 2014, la Universitatea din Mannheim.
- Rares Rasdeaconu: grantul de cercetare cu titlul ”Deformation techniques in real enumerative geometry and Kähler geometry” din partea ”Simons Foundation”, SUA (Award Number: 281266). Este un grant de cercetare pe o perioadă de 5 ani, și care a început in 2013.
- Mihnea Colțoiu: director grant CNCS, PN-II-ID-PCE-2011-3-0269.
- V. Radulescu: *Qualitative and numerical analysis of nonlinear problems on fractals*, Grant CNCS Idei “Proiecte de Cercetare Exploratorie” (2011-2015, CNCS PCE-47/2011)
- V. Radulescu: *Sisteme de asigurare a securitatii informatiei bazate pe modele neliniare de analiza a fluxului informational*. Grant CNCS “Proiecte Complexe de Cercetare Avansata” (CNCS PN-II-PT-PCCA-2013-4-0614)
- V. Radulescu: *Qualitative Analysis of Some Degenerate and Singular Phenomena in Non-linear Analysis*, HiCi Program, King Abdulaziz University, Jeddah, Saudi Arabia
- Laurentiu Maxim: *Singular Spaces in Geometry and Topology*, cercetare, 09/2013 – 08/2016, National Science Foundation (USA).
- Laurentiu Maxim: *Singular Spaces in Geometry and Topology*, cercetare, 2014 – 2015, National Security Agency (NSA).
- P. Stanica: *Constructions of cryptographic Boolean functions*, project with IIT–Roorkee, India.
- P. Stanica: *Side-channel attacks*, project with TLNUS, Singapore.
- P. Stanica: ONR-Global Visiting Scientist Program Research Grant, NPS and IIT-Roorkee, India.

8.2 Conducere doctorate

- Irina Nenciu: Deniz Bilman, student doctorand, Department of Mathematics, University of Illinois at Chicago.
- Cristian Sminchisescu: Abilitare (Universitatea Bonn, 2007), echivalata automat prin ordin MEC, 2013, coordonator a 7 doctoranzi.

- Alina Cojocaru este conducătoare de doctorat pentru Abel Castillo, University of Illinois at Chicago
- Toma Albu: *Apostol Brăduț*, Teza “*Contributii la studiul functiilor aritmetice*” sustinuta in iulie 2014.
- Toma Albu: *Petrescu Lucian*, stadiu de elaborare a Tezei
- Daniel Beltiță a fost conducător de doctorat al lui Mihai Nicolae, admis la programul de doctorat în urma colocviului din octombrie 2011, și înmatriculat la 1 noiembrie 2011. Teza de doctorat corespunzătoare, cu titlul *Momente pentru reprezentări de grupuri Lie*, a avut susținerea publică pe 27 octombrie 2014, primind calificativul „Foarte bine”.
- Liviu Ornea: Alexandra Otiman, înmatriculată în octombrie 2014, la Școala doctorală de Matematică a Universității din București
- Dan Polișevski: Dumitru Adina, inmatriculata in 2005, este in ultima perioada de prelungire, acordata pe motive medicale, in vederea sustinerii tezei.
- Dan Polișevski: Cristian Cotoarba, inmatriculat in 2009, mai are doar de sustinut teza.
- Dan Polișevski: Florentina-Alina Stanescu, inmatriculata in 2010, admisa cu frecventa in cadrul Institutului de Matematica ”Simion Stoilow” al Academiei Romane, a sustinut teza de doctorat anul acesta in septembrie, incheind cu bine contractul din cadrul proiectului POSDRU.
- Dan Tiba: Roxana Nicolai (din 2012), Merlusca Diana (2010-2014)
- Marian Vâjâitu are un doctorand: Cosmin-Constantin Nițu, din anul 2010, in stadiul de elaborare al tezei.
- Mihnea Colțoiu are doi doctoranzi: George Ionut Ionita si Ovidiu Preda.
- Nicolae Popa: Roberto Fernandez, cetatean francez, inmatriculat la doctorat la 01.11.2012.
- Nicolae Popa: Alexandru Petre Tache, inmatriculat la doctorat la 01/11/2013.
- C. Năstăsescu: În anul 2014, doctoranda Andronache (Vișan) Cătălina și-a susținut cu succes teza de doctorat.
- Lucian Beznea: in anul 2014 și-a susținut teza un doctorand: Marian Haiducu
- Dorin Popescu: conduce la Scoala Doctorala a Facultatii de Matematica 3 doctoranzi: Mihai Epure, Andrei Zarojanu si George Teseleanu, primii doi au depus deja tezele pentru sustinere.
- Vicențiu Rădulescu : Diana Alexandrescu, teza de doctorat “Qualitative Methods in Nonlinear Analysis” susținută la 10.12.2014 la Universitatea din Craiova.
- Vicențiu Rădulescu: Cristian Udrea, teza de doctorat “Qualitative Methods in the Study of Nonlinear Elliptic Problems” susținută la 12.12.2014 la Universitatea din Craiova.

- Vicențiu Rădulescu a fost raportor pentru teza de doctorat “Problèmes singuliers et bifurcation analytique”, prezentată de Brahim Bougherara la Université de Pau (12 septembrie 2014).
- In prezent, Vicențiu Rădulescu are 4 doctoranzi (anii II și III).
- Laurentiu Maxim: Yun Su, anul VI, UW-Madison
- Laurentiu Maxim: Kai Ho Wong, anul VI, UW-Madison
- Laurentiu Maxim: Yongqian Liu, anul IV, USTC (Hefei, China)
- P. Stanica: Thor Martinsen, 2013–
- P. Stanica: Spyridon Pollatos, 2013–

8.3 Membru în colective editoriale

- T. Zamfirescu: Annals of the University of Craiova,
- T. Zamfirescu: Mathematics and Computer Science Series,
- T. Zamfirescu: Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie,
- T. Zamfirescu: Carpathian Journal of Mathematics,
- T. Zamfirescu: Electronic Journal of Graph Theory and Applications.
- M. Petcu: Differential and Integral Equations
- M. Petcu: Applied Mathematics and Optimization
- M. Petcu: Asymptotic Analysis
- E. Mihăilescu: membru in Editorial Board la Discrete and Continuous Dynamical Systems-series S.
- Cristian Sminchisescu: Associate Editor (IEEE Transaction on Pattern Analysis and Machine Intelligence, IF: 4.795)
- Cristian Sminchisescu: Area Chair IEEE Computer Vision and Pattern Recognition, CVPR 2015
- Cristian Sminchisescu: Program Committee: Neural Information Processing Systems NIPS 2014, European Conference on Computer Vision, International Conference on Machine Learning, ICML 2014
- Alina Cojocaru: International Journal of Number Theory, Associate Editor
- Toma Albu: Revista “*Gazeta Matematică*”, din 1980.
- Toma Albu: Revista “*Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie*”, din 2004.

- Toma Albu: Revista “*Communications in Algebra*”, Taylor & Francis Group, Philadelphia (fost Marcel Dekker, Inc., New York), din 2005.
- Toma Albu: Revista “*Analele Științifice ale Universității Ovidius Constanța*”, din 2012.
- Vasile Drăgan: Associate Editor la International Journal of Innovative Computing, Information and Control (IJICIC)
- Vasile Drăgan: Associate Editor la Express Letters- An International Journal of Research and Surveys
- Dan Timotin: Journal of Operator Theory.
- Dan Timotin: Revue Roumaine de Mathématiques Pures et Appliquées.
- Dan Timotin: Mathematical Reports.
- Dan Timotin: Analele Științifice ale Universității “Alexandru Ioan Cuza” din Iași, Matematică.
- V. Timofte: Editor Asociat, *Australian Journal of Mathematical Analysis and Applications (AJMAA)*, Perioada 2005-prezent
- Gheorghe Paun: Seria Matematică-Informatică a *Analelor Universității din București*
- Gheorghe Paun: Seria Matematică-Informatică a *Analelor Universității Al.I. Cuza din Iași*
- Gheorghe Paun: Seria Matematică-Informatică a *Analelor Universității din Oradea*
- Gheorghe Paun: *Journal of Automata, Languages, and Combinatorics*, Universitatea din Magdeburg, Germania
- Gheorghe Paun: *Romanian Journal of Information Science and Technology* – cotat ISI
- Gheorghe Paun: *Computer Science Journal of Moldova*, Academia Moldovei, Chișinău
- Gheorghe Paun: *International Journal of Unconventional Computing*
- Gheorghe Paun: *Progress in Natural Science* (Elsevier and Science in China Press) – cotat ISI
- Gheorghe Paun: *Journal of Information Systems & Operations management* (Univ. Româno - Americană)
- Gheorghe Paun: *Economic Computation and Economic Cybernetics Studies and Research* (ASE București)
- Gheorghe Paun: *International Journal of Computers, Communication, and Control*, Univ. Oradea – cotat ISI
- Daniel Beltiță: Analele Științifice ale Universității „Al.I.Cuza” din Iași —Matematică (<http://www.math.uaic.ro/~annalsmath/>).

- Calin Popescu: *Gazeta Matematică – Seria A*.
- Liviu Ornea: *Mathematical Reports*
- Liviu Ornea: *Revue roumaine de mathématiques pures et appliquées*
- Liviu Ornea: *Bulletin mathématique de la SSMR*
- Liviu Ornea: *Annals of the University of Buharest (Math. series)*
- Radu Gologan: *Bulletin Mathematique de la Societe Roumaine de Mathematiques*
- Radu Gologan: *Gazeta Matematica seria A*
- Vasile Brinzanescu: *editor sef la Math. Rep.*
- Vasile Brinzanescu: *editor sef la Math. Rep. Revue Roum. Math. Pures Appl.*
- Vasile Brinzanescu: *editor la Bull. Math. Soc. Sci*
- Vasile Brinzanescu: *editor la Math. Roum.*
- Vasile Brinzanescu: *editor la Serdica Math. (Bulgaria)*
- Vasile Brinzanescu: *editor la Proc. Acad. Rom.*
- Vasile Brinzanescu: *editor la An. Univ. Ovidius Constanta*
- Vasile Brinzanescu: *editor la Bull. UPB*
- Lori Badea: *Annals of the A. R. S., Series on Mathematics and its Applications*
- Dan Tiba: *Mathematics and its Applications, Annals of AOSR, Series on Mathematics (Series Co-editor)*
- Dan Tiba: *Scientific Bulletin-Politehnica of Bucharest, Series A : Applied Mathematics and Physics*
- Dan Tiba: *Journal of the Calculus of Variations, Hindawi*
- M. Colțoiu: *Proc. Romanian Academy,*
- M. Colțoiu: *Acta Universitatis Apulensis (Alba Iulia)*
- P. Ionescu: *Editor șef al revistei Annali dell'Università di Ferrara (Springer)*
- P. Ionescu: *Editor al revistei Analele Universității din București*
- C. Năstăsescu: *Analele Universității din București, Seria Matematică.*
- C. Năstăsescu: *Revue Roumaine de Mathématiques Pures et Appliquées.*
- C. Năstăsescu: *Mathematical Reports*
- C. Năstăsescu: *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie.*

- C. Năstăsescu: Analele Științifice ale Universității ”Ovidius” din Constanța, Seria Matematică.
- C. Năstăsescu: Analele Universității din Craiova, Seria Matematică - Informatică.
- C. Năstăsescu: Mathematica (Cluj).
- Mihai Cipu: Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie
- Mihai Cipu: Gazeta Matematică, Seria A
- Lucian Beznea: *Ann. Univ. București*, Editura Univ. din București
- Lucian Beznea: *Advances in Pure and Applied Mathematics*, De Gruyter
- Lucian Beznea: *Revue Roumaine Math. Pures Appl., Math. Reports*, Editura Academiei Romane
- Lucian Beznea: *Proc. Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Information Science*, Editura Academiei Romane
- Dorin Popescu: Bull. Math. Soc. Sci. Math. Roumanie
- Dorin Popescu: Analele Universitatii Ovidius (Constanta)
- Dorin Popescu: Analele Universitatii Bucuresti.
- Stefan Papadima: Revue Roumaine de Mathématiques Pures et Appliquées
- Stefan Papadima: Mathematical Reports
- Marian Aprodu: Revue Roumaine Math. Pures Appl.
- Marian Aprodu: Math. Reports
- V.Radulescu: Editor in Chief of *Advances in Nonlinear Analysis* (Walter de Gruyter)
- V.Radulescu: Associate Editor of *Nonlinear Analysis: Theory, Methods & Applications*
- V.Radulescu: Associate Editor of the *Journal of Mathematical Analysis and Applications*
- V.Radulescu: Member of the Editorial Board of *Complex Variables and Elliptic Equations*
- V.Radulescu: Associate Editor of *Boundary Value Problems*
- V.Radulescu: Associate Editor of the *Electronic Journal of Differential Equations*
- V.Radulescu: Acquisition Editor, *de Gruyter-Versita Book Publishing Program in Mathematics*
- V.Radulescu: Editor of *Advances in Pure and Applied Mathematics* (Walter de Gruyter)
- V.Radulescu: Associate Editor of *Discrete and Continuous Dynamical Systems, Series S* (American Institute of Mathematical Sciences)

- V.Radulescu: Member of the Editorial Committee of *Opuscula Mathematica* (Krakow University)
- V.Radulescu: Member of the Editorial Board of “MATHlics Research Paper Series Applied MATHematics Journal for EconomICS” (edited by MEDAlics–Research Centre on Mediterranean Relations)
- V.Radulescu: Member of the Editorial Board of *Revue d’Analyse Numérique et de Théorie de l’Approximation* (Romanian Academy)
- V.Radulescu: Honorary Editor of the *International Journal of Mathematical Analysis* (Hikari)
- V.Radulescu: Member of the Editorial Board of *Ann. St. Univ. Ovidius Constanta*
- V.Radulescu: Editor in Chief of the *Annals of the University of Craiova - Mathematics and Computer Science Series*
- R. Diaconescu *Studies in Universal Logic* book series at Springer Basel, Switzerland.
- R. Diaconescu *International Journal of Mathematics and Mathematical Sciences* at Hindawi Publishing Corporation, USA.
- R. Diaconescu *ISRN Algebra* at Hindawi Publishing Corporation, USA.
- F. Rădulescu: *Journal of Operator Theory*
- P. Stanica: *European Journal of Pure and Applied Mathematics* (Associate Editor 2007–present)
- P. Stanica: *Journal of Discrete Mathematics* (Associate Editor 2012–present)
- P. Stanica: Member of Board of Directors – Fibonacci Association
- Mihai Mihailescu: Member of the editorial board of *Abstract and Applied Analysis*. <http://www.hindawi.com/journals/aaa/editors/>
- Mihai Mihailescu: Member of the editorial board of *International Journal of Pure Mathematics*. <http://www.naun.org/cms.action?id=6985>
- Adrian Constantinescu: Membru in Editorial Board al revistei “Acta Universitatis Apulensis, S. Mathematics-Informatics”, ISSN 1582-5329, editata de Universitatea “1 Decembrie 1918” din Alba Iulia.
- Marius Leordeanu Membru in comitetul stiintific al urmatoarelor conferinte: International Conference on Computer Vision, International Conference on Computer Vision and Pattern Recognition, European Conference on Computer Vision, British Machine Vision Conference, Asian Conference on Computer Vision.

8.4 Lucrări acceptate la publicat

1. L. Yuan, T. Zamfirescu, *Right triple convex completion*, J. Convex Analysis, 1, 22 (2015), accesibil electronic
2. E. Mihailescu and M. Roychowdhury, *Quantization coefficients in infinite systems*, acceptata la Kyoto Journal of Mathematics, Duke University Press.
3. Constantinescu A., Varbaro M: *h-vectors of matroid complexes*, to appear on Proceedings of CoMeTA 2013, Springer INdAM series.
4. Radu Iordanescu, Florin F. Nichita, Ion M. Nichita: *The Yang-Baxter equation, (quantum) computers and unifying theories*, acceptata la Axioms, MDPI, 9 pagini.
5. F. Belgun, A. Moroianu *On the irreducibility of locally metric connections*, acceptata la J. reine angew. Math., publicata online cu nr. DOI 10.1515/crelle-2013-0128.
6. I. Chiose *The Kähler rank of compact complex manifolds*, acceptata la J. Geom. Anal.
7. S. Mathe, C. Sminchisescu *Dynamic Gaze Datasets and Learnt Saliency Models for Visual Recognition*, IEEE Transactions on Pattern Analysis and Machine Intelligence, IF: 4.795, va apare (2015)
8. J. Carreira, R. Caseiro, J. Batista and C. Sminchisescu *Free-Form Region Description with Second-Order Pooling*, IEEE Transactions on Pattern Analysis and Machine Intelligence, IF: 4.795, va apare (2015)
9. Liviu Păunescu; *Convex structures revisited*, acceptată la Ergodic Theory and Dynamical Systems.
10. Robert Neel and Ionel Popescu: *A Stochastic Target Approach to Ricci Flow on Surfaces*, preprint: arXiv:1209.4150, Acceptata la Annals of Probability.
11. C. Ionescu: *More properties of almost Cohen-Macaulay rings*, acceptata la J. Commut. Algebra.
12. T. Albu: “*Chain Conditions in Modular Lattices with Applications to Grothendieck Categories and Torsion Theories*”, Monograph Series of the Sociedade Paranaense de Matemática, Brazil (2015), 132 pagini.
13. T. Albu, *Relativization, absolutization, and latticization in Ring and Module Theory*, São Paulo J. Math. Sci. 8 (2015), 44 pagini.
14. R. Gaba: *On some special types of Fontaine sheaves and their properties*, acceptata la Indian Journal of Pure and Applied Mathematics (2014).
15. Hiroaki Mukaidani, Hua Xu and Vasile Drăgan, *Decentralized H2 Control for Multi-channel Stochastic Systems*, acceptata la IEEE Transaction on Automatic Control, pag. 6
16. Samir Aberkane, Vasile Drăgan, *Robust stability and robust stabilization of a class of discrete-time time-varying linear stochastic systems*, acceptata la SIAM Journal on Control and Optimization, pag. 26

17. Shaikshavali Chitraganti, Samir Aberkane, Christophe Aubrun, Guillermo Valencia-Palomo and Vasile Drăgan, *On control of discrete-time state-dependent jump linear systems with probabilistic constraints: A receding horizon approach*, acceptata la Systems and Control Letters, pag. 11
18. Hiroaki Mukaidani, Hua Xu and Vasile Drăgan, *Dynamic Games for Markov Jump Stochastic Delay Systems*, acceptata ca si capitol in volumul "Recent results on time-delay systems: analysis and control", Series Ed.: S. I. Niculescu, ISSN: 2197-117X, pag. 20
19. Cristian Cobeli, Alexandru Zaharescu, *On the geometry behind a recurrent relation*, acceptată la revista Carpathian Journal of Mathematics, pp. 9.
20. Jayadev S. Athreya, Cristian Cobeli, Alexandru Zaharescu, *Radial Density in Apollonian Packings*, acceptată la revista International Mathematics Research Notices, pp. 13.
21. Ionut Chifan, Thomas Sinclair, Bogdan Udrea: *Inner amenability for groups and central sequences in factors*, Submitted for publication and accepted in Ergodic Theory and Dynamical Systems
22. Dan Timotin: *A short introduction to de Branges–Rovnyak spaces*, acceptata la CRM Proceedings, conferința *Invariant Subspaces of the Shift Operator*.
23. Dan Timotin: *Note on a Julia operator related to model spaces*, acceptata la CRM Proceedings, conferința *Invariant Subspaces of the Shift Operator*.
24. N.C. Bonciocat, *Schönemann-Eisenstein-Dumas-type irreducibility conditions that use arbitrarily many prime numbers*, acceptata la Communications in Algebra, pag. 1–20.
25. Stan, Florin; Zaharescu, Alexandru: *Weil numbers in finite extensions of \mathbb{Q}^{ab} : The Loxton-Kedlaya phenomenon*, acceptata la Trans. Amer. Math. Soc.
26. D. Belțiță, B. Cahen: *Contractions of Lie algebras with 2-dimensional generic coadjoint orbits*, acceptata la Linear Algebra and its Applications, 23 pagini (<http://dx.doi.org/10.1016/j.laa.2014.10.005>).
27. D. Belțiță, M. Nicolae: *Moment convexity of solvable locally compact groups*, acceptata la Journal of Lie Theory, 19 pagini (<http://www.heldermann.de/JLT/JLT25/JLT253/jlt25034.htm>).
28. I. Belțiță, D. Belțiță: *Inverse-closed algebras of integral operators on locally compact groups*, acceptata la Annales Henri Poincaré, 24 pagini (<http://dx.doi.org/10.1007/s00023-014-0320-x>)
29. A. Dimca, D. Ibadula, Macinic, *Pencil type line arrangements of low degree: classification and monodromy*, acceptata la Annali della Scuola Normale Superiore di Pisa, Classe di Scienze, DOI Number: 10.2422/2036 – 2145.201306_03.
30. Ionescu-Kruse D.: *Short-wavelength instabilities of edge waves in stratified water*, acceptata la Discrete and Continuous Dynamical Systems A, 1–14.
31. J. Itoh, C. Vilcu: *Every graph is a cut locus*, acceptată la *J. Math. Soc. Japan*, 15 pag.

32. J. Rouyer, C. Vilcu: *The connected components of the space of Alexandrov surfaces*, acceptată în vol. *Bridging Algebra, Geometry and Topology*, D. Ibadula and W. Veys (eds.), Springer Proc. in Math. & Stat., vol. 96, (noiembrie 2014); ISBN 978-3-319-09186-0
33. J. Itoh, J. Rouyer, C. Vilcu: *On the Theorem of the Three Perpendiculars*, acceptată la *Elem. Math.*, 8 pag.
34. Paul Gauduchon, Andrei Moroianu, Liviu Ornea, *Compact homogeneous LCK manifolds are Vaisman*, *Mathematische Annalen*, doi: 10.1007/s00208-014-1103-x
35. V. Brinzanescu, V. Vuletescu *Irreducible vector bundles on some elliptic non-Kähler three-folds*, acceptata la *Journal of Geometry and Physics*, pag. 10.
36. Liana David: *On cotangent manifolds, complex structures and generalized geometry*, 27 pagini, a primit referat pozitiv, care recomanda acceptarea spre publicare, la *Annales de l'Institut Fourier*. Asteapta decizia finala a comitului de redactie.
37. L. Badea: *Convergence rate of some hybrid multigrid methods for variational inequalities*, acceptată pentru publicare în *Journal of Numerical Mathematics*
38. L. Badea: *Globally convergent multigrid method for variational inequalities with a nonlinear term*, acceptată pentru publicare în *Proceedings of the 22nd International Conference on Domain Decomposition Methods*, September 16-20, 2013, Università della Svizzera italiana, Lugano, Switzerland
39. L. Badea: *Two-level methods with optimal computing complexity for variational inequalities of the second kind*, *Annals of the University of Bucharest (mathematical series)*, 5 (LXIII), 2014, in press
40. Z. Ahmad, T. Dumitrescu si M. Epure *A Schreier Domain Type Condition II*, acceptata la *Algebra Colloquium*, 12 pagini
41. Andrei Negut, *The $\frac{m}{n}$ Pieri rule*, *International Mathematics Research Notices* (acceptata 2014), se pregateste publicarea
42. Andrei Negut, *Moduli of Flags of Sheaves and their K-theory*, *Algebraic Geometry* (acceptata 2014), se pregateste publicarea
43. I. Gruais, D. Poliřevski and F.-A. Stanescu: *The effective permeability of fractured porous media subject the Beavers-Joseph contact law*, acceptata la *Asymptotic Analysis*
44. D. Poliřevski, R. Schiltz-Bunoiu and F.-A. Stanescu: *Heat transfer with first-order interfacial jump in a biconnected structure*, acceptata la *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie*
45. I. Gruais and D. Poliřevski: *Homogenization of fluid-porous interface coupling in a biconnected fractured media*, acceptata la *Applicable Analysis*
46. Gelu Pașa *Some diffusion effects in Hele-Shaw immiscible displacements*, *Annals of University of Bucharest - Volum aniversar Nicolae Cristescu*.

47. Roxana Nicolai, Dan Tiba: *Implicit functions and parametrizations in dimension three: generalized solutions*, DCDS-A vol.35, no.6 (2015)
48. Horia D. Cornean, Arne Jensen, Gheorghe Nenciu *Metastable states when the Fermi Golden Rule constant vanishes*, acceptata la Commun. Math. Phys, aparuta online: August 2014, DOI 10.1007/s00220-014-2127-5
49. B. Berceanu, Z. Iqbal: *Universal upper bound for the growth of Artin monoids*, acceptată la Communications in Algebra, 11 pag.
50. U. Ali, B. Berceanu: *Canonical form of positive braids*, acceptată la Journal of Algebra and its Applications, 27 pag.
51. S. Ashraf, H. Azam, B. Berceanu: *Representation stability of power sets and square free polynomials*, acceptată la Canadian Journal of Mathematics, 22 pag.
52. Kharlamov, Viatcheslav, Răsdeaconu, Rareş *Counting real rational curves on K3 surfaces*, Int. Math. Res. Notices, first published online June 20, 2014 doi:10.1093/imrn/rnu091 (20 pages)
53. Răsdeaconu, Rareş, Şuvaina, Ioana, *ALE Ricci-flat Kähler surfaces and weighted projective spaces*, Ann. Glob. Anal. Geom., first published online August 11, 2014, DOI 10.1007/s10455-014-9438-9
54. Radu Pantilie: *On the quaternionic manifolds whose twistor spaces are Fano manifolds*, acceptata la Tohoku Mathematical Journal, pag. 5.
55. Radu Pantilie: *On the twistor space of a (co-)CR quaternionic manifold*, acceptata la New York Journal of Mathematics, pag. 13.
56. Denisa Stancu-Dumitru *Multiplicity of solutions for an anisotropic problem in Orlicz-Sobolev spaces*, acceptata la Journal of Nonlinear and Convex Analysis.
57. V. Alexandru, M. Vâjâitu, A. Zaharescu: *On p-adic analytic continuation with applications to generating elements*, acceptata la Proceedings of the Edinburgh Mathematical Society.
58. V. Alexandru, C.C. Niţu, M. Vâjâitu, A. Zaharescu: *On the norm of Krasner analytic functions with applications to transcendence results*, acceptata la Journal of Pure and Applied Algebra.
59. M. Vâjâitu: *On a class of Krasner analytic functions and applications*, acceptata la Bulletin Mathematique.
60. Gruia Arsu: *On Hörmander-Kato spaces*, acceptata J. Operator Theory
61. Mike Hughes, Mihai Staic and Xiangdong Xie, titlu lucrare: *Classification of a class of nonrigid Carnot groups*, acceptata la Journal of Lie Theory.
62. Serban T. Belinschi, Tobias Mai and Roland Speicher: *Analytic subordination theory of operator-valued free additive convolution and the solution of a general random matrix problem*, acceptata la Journal für die Reine und Angewandte Mathematik, pag. 32.

63. A. Makhlof, F. Panaite, *Twisting operators, twisted tensor products and smash products for Hom-associative algebras*, acceptata pentru publicare in Glasgow Math. J.
64. R. Stavre *A distributed control problem for two coupled fluids in a porous medium*, acceptata la SIAM Journal on Control and Optimization, mesaj de acceptare primit de la editor pe 3 noiembrie 2014.
65. V.Iftimie, R.Purice: *The Peierls-Onsager Effective Hamiltonian in a complete gauge covariant setting: Determining the spectrum*, acceptata la Journal of Spectral Theory (2014) Forthcoming (accepted 03.04.2014)
66. V. Ursu, A. Covalschi: *Quasiniidentities of finitely generated nilpotent A-loop*, acceptată la Revue Roumane de mathematiques pures et appliques, 2015, N1.
67. S. Burciu and A. Bruguières: : *On normal tensor functors and coset decompositions for fusion categories*, acceptata la Applied Categorical Structures, pag. 22.
68. S. Burciu: *On a symmetry of Müger's centralizer for the Drinfeld double of a semisimple Hopf algebra*, Mathematische Zeitschrift online August (2014), pag. 17.
69. M. Cipu, *Further remarks on Diophantine quintuples*, acceptată la Acta Arithmetica
70. M. Cipu, Y. Fujita, *Bounds for Diophantine quintuples*, acceptată la Glas. Math. Ser. III
71. L. Beznea and O. Lupaşcu: *Measure-valued discrete branching Markov processes*, acceptată la Trans. Amer. Math. Soc., 23 pagini
72. L. Beznea and I. Cîmpean: *On Bochner-Kolmogorov Theorem* acceptată la Séminaire de Probabilités (Lecture Notes in Mathematics), Springer, 9 pagini
73. D. Popescu, A. Zarojanu, *Three generated, squarefree, monomial ideals*, Bull. Math. Soc. Sci. Math. Roumanie, 58(106), (2015), no 3, arXiv:AC/1307.8292v6.
74. D. Popescu, *Stanley depth of monomial ideals*, Bull. Math. Soc. Sci. Math. Roumanie, 58(106), (2015), no 1, arXiv:AC/1404.6010.
75. S. Papadima, A. Suciuc: *Jump loci in the equivariant spectral sequence*, arXiv:1302.4075, va apare in Math. Res. Letters, 16 pag.
76. S. Papadima, A. Suciuc: *Non-abelian resonance: product and coproduct formulas*, preprint arXiv:1312.1828, va apare in Springer Proceedings in Mathematics and Statistics, 12 pag.
77. A. Dimca, S. Papadima, A. Suciuc: *Algebraic models, Alexander-type invariants, and Green-Lazarsfeld sets*, preprint arXiv:1407.8027, va apare in Bull. Math. Soc. Sci. Math. Roumanie, 14 pag.
78. Marian Aprodu, Gavril Farkas, Angela Ortega: *Minimal resolutions, Chow forms of K3 surfaces and Ulrich bundles*, acceptată la Journal für die reine und angewandte Mathematik, pag. 23

79. Marian Aprodu, Gavril Farkas, Angela Ortega: *Restricted Lazarsfeld-Mukai bundles and canonical curves*, acceptată la Advanced Studies in Pure Mathematics (Math. Soc. Japan) on the occasion of Mukai's 60th birthday, pag. 15
80. Florin Nicolae *On the determination of number fields by L-functions*, acceptata la Journal de Théorie des Nombres de Bordeaux
81. N. Papageorgiou, Vicențiu Rădulescu, *Neumann problems with indefinite and unbounded potential and concave terms*, Proceedings Amer. Math. Soc., pag. 13.
82. N. Papageorgiou, Vicențiu Rădulescu, *Multiplicity of solutions for resonant Neumann problems with an indefinite and unbounded potential*, Transactions Amer. Math. Soc., pag. 30.
83. G. Molica Bisci, Vicențiu Rădulescu, *A characterization for elliptic problems on fractal sets*, Proceedings Amer. Math. Soc., pag. 10.
84. G. Molica Bisci, Vicențiu Rădulescu, *Applications of local linking to nonlocal Neumann problems*, Commun. Contemp. Math., pag. 17.
85. N. Papageorgiou, Vicențiu Rădulescu, *Resonant $(p, 2)$ -equations with asymmetric reaction*, Analysis and Applications, pag. 26.
86. A. Bahrouni, H. Ounaies, Vicențiu Rădulescu, *Infinitely many solutions for a class of sub-linear Schrödinger equations with indefinite potentials*, Proceedings of the Royal Society of Edinburgh: Section A (Mathematics), pag. 19.
87. B. Alleche, Vicențiu Rădulescu, *Equilibrium problems techniques in the qualitative analysis of quasi-hemivariational inequalities*, Optimization, pag. 14.
88. G. Molica Bisci, Vicențiu Rădulescu, *Bifurcation analysis of a singular elliptic problem modelling the equilibrium of anisotropic continuous media*, Topological Methods in Nonlinear Analysis, pag. 18.
89. N. Papageorgiou, Vicențiu Rădulescu, *Multiple solutions for asymptotically linear elliptic equations with sign changing weight*, Kyoto J. Math., pag. 10.
90. I. Stancut, Vicențiu Rădulescu, *Combined concave-convex effects in anisotropic elliptic equations with variable exponent*, Nonlinear Differential Equations and Applications (NoDEA), pag. 22.
91. N. Papageorgiou, Vicențiu Rădulescu, *Positive solutions for perturbations of the eigenvalue problem for the Robin p -Laplacian*, Ann. Acad. Sci. Fennicae, pag. 23.
92. B. Alleche, Vicențiu Rădulescu, *The Ekeland variational principle for equilibrium problems revisited and applications*, Nonlinear Analysis: Real World Applications, pag. 17.
93. Ovidiu Preda: *Locally Stein open subsets in normal Stein spaces*, acceptata la J. Geom. Anal. (DOI 10.1007/s12220-014-9535-9)
94. A Moroianu, S Moroianu *Ricci Surfaces*, acceptată la Ann. Sc. Norm. Super. Pisa Cl. Sci. doi:10.2422/2036-2145.201206_007.

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- Surfaces minimales intrinseques, Colaborare CNRS, Universite de Versailles - IMAR in cadrul LEA
- Methodes de decomposition de domaine pour les problemes de contact avec frottement et methodes de couplage avec des conditions de sauts sur l'interface, Colaborare Laboratoire de Mecanique et d'Acoustique CNRS - Universite d'Aix-Marseille - IMAR in cadrul LEA
- Courants positifs fermes sur les surfaces de la classe VII, Colaborare Universite Elie Cartan - Universite de Lorraine - IMAR in cadrul LEA.
- Methodes effectives dans l'etude des polynomes et des equations diophantiennes, Colaborare Universite de Strasbourg - IMAR in cadrul LEA
- Operateurs de Toeplitz tronques sur les espaces modeles, Colaborare Universite de Lyon 1 - Universite de Lille 1 - IMAR in cadrul LEA
- Bifurcation sets and holomorphic arcs, Colaborare Universite de Lille 1 - IMAR in cadrul LEA.
- Locally conformally Kaehler manifolds with large symmetry group, Colaborare CNRS, Universite de Versailles - IMAR in cadrul LEA.
- Strichartz estimates for the Schroedinger equation on trees/graphs and applications, Colaborare Universite d'Evry - IMAR in cadrul LEA
- Stagiu doctoral la IMAR, Colaborare Universite Lille 1 - IMAR in cadrul LEA.