

Raport Anual

Institutul de Matematică "Simion Stoilow" al Academiei Române

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3 Cărți publicate în 2016

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2. Florin F. Nichita: *Hopf Algebras, Quantum Groups and Yang-Baxter Equations 2016*, Axioms 2016, 5(4), 25; MDPI (2016), 14 pag. (in curs de finalizare), ISSN 2075-1680.

4.2 În țară

1. Marian Andronache, Mihai Bălună, Mircea Becheanu, Bogdan Enescu, Radu Gologan (coordonator), Călin Popescu, Dinu Șerbănescu, *Romanian Mathematical Competitions*, Societatea de Științe Matematice din România (2016), pag. 38-41, 49-65, 83-90, 97-123, ISSN: 20066-6446.

4.3 Alte lucrări elaborate în cadrul contractelor IMAR

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7. C. Cazacu: *New estimates for the Hardy constants of multipolar Schrodinger operators*, **Commun. Contemp. Math.**, **18** (2016), 1550093 (28 pages).
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12. N. Costea, M. Csirik, C. Varga: *Linking-type results in nonsmooth critical point theory and applications*, **Set-Valued Var. Anal.**, in press.
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 - Autocitări: 92

Se adaugă, pentru anul 2016, 660 de citări ale lucrărilor d-lui C. Sminchișescu și 375 de citări ale d-lui M. Leordeanu.

6 Premii

6.1 Premiile Academiei Române

Premii acordate în 2016 pentru lucrări din 2014.

- Florin Ambro, pentru lucrări de geometrie algebrică.
- Anca Căpățînă, pentru lucrări de mecanica solidelor.
- Vicențiu Pașol și Alexandru Popa, pentru lucrări de teoria numerelor.

6.2 Alte premii

- Marian Aprodu: Premiul Ad-Astra 2016 pentru excelență în cercetare.
- Remus Nicoară: Premiu pentru dezvoltare profesională la Universitatea Tennessee, Knoxville USA
- Alexandru Zaharescu: ales 2017 Fellow of the AMS.
- M. Vlădescu și D. T. Vuza: Best Paper Award Plenary Session la conferința Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies ATOM-N, Constanta, august 2016, pentru lucrarea *Enhanced automated platform for 2D characterization of RFID communications*.

7 Conferințe

7.1 Organizări de conferințe

1. Toma Albu: Algebra Workshop to honour Professor Mirela Ștefănescu's 75th birthday, Universitatea București & IMAR, 10 decembrie 2016
<http://www.imar.ro/dtimotin/Mirela/ConferintaMirelaStefanescu.html>
2. A. Constantinescu: Mini-symposium (7th ECM): *Combinatorial Algebraic Geometry* 4 speakers, Part of the 7th ECM, Berlin (Germania)
http://www.7ecm.de/program/mini_symposia.html\#MS_1
3. Cristian Anghel, Anca Bonciocat, N.C. Bonciocat, Anca Măcinic, Sergiu Moroianu: *Special Session on Algebra, Geometry and Topology Dedicated to the 150th Anniversary of the Romanian Academy, Ovidius University of Constanța, 19–20 may 2016*,
<http://math.univ-ovidius.ro/Workshop/2016/WYRM/#/Special-Session> (în cadrul manifestării științifice: *Workshop for Young Researchers in Mathematics - 6th edition, Ovidius University of Constanța, 19–22 may 2016*
<http://math.univ-ovidius.ro/Workshop/2016/WYRM/#/>)
4. L. Beznea: Organizarea seriei de conferințe lunare IMAR,
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<http://www.imar.ro/cionescu/Afis.pdf>
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7. L. Beznea și Cezar Joița: *International Conference on Complex Analysis and Related Topics – The 14th Romanian-Finnish Seminar*, 20-24 iunie, 2016, București, <http://imar.ro/RoFinSer>
8. Liviu Ignat, Laurențiu Maxim, Anca Măcinic: Workshop for Young Researchers In mathematics, Universitatea Ovidius Constanta, May 19 - May 22, 2016,
<http://math.univ-ovidius.ro/Workshop/2016/WYRM/>

9. Liviu Ignat: XIII-ème Colloque Franco-Roumain de Mathématiques Appliquées, section Analyse et controle des EDP, Iași, August 25-29, 2016
<http://www.math.uaic.ro/cfr2016>
10. Liviu Ignat: Ecole d'été régionale franco-roumaine en mathématiques appliquées, 29 juin – 7 juillet, 2016, Sinaia
<http://www.imar.ro/cionescu/Scoalavara1.pdf>
11. Mădălina Petcu: Co-organizator, împreună cu Roger Temam și Younghoon Hong al simpozionului cu titlul: "Classical and Geophysical Fluid Dynamics" în cadrul conferinței: "The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications" Orlando, Florida, USA, 1-5 Iulie 2016
<http://www.aimsconferences.org/conferences/2016/>
12. Radu Purice: co-organizator al editiei a 13-a a Colocviului Franco-Roman de Matematici Aplicate, Iasi, 25-29 August 2016,
<http://www.math.uaic.ro/cfr2016/index.php?info>
13. Vasile Drăgan: Program committee member la The 13th International Conference on Informatics in Control, Automation and Robotics (ICINCO) , Lisabona, Portugalia, 29-31 Iulie 2016
<http://www.icinco.org/ProgramCommittee.aspx?y=2016>
14. Vasile Drăgan: Program committee member la International Conference on Mathematical Methods and Scientific Computing (MMSC 2016), Dobrich, Bulgaria, 18 - 24 September 2016
<http://www.biomath.bg/MMSC2016/committees.php>
15. Marian Aprodu, Liviu Ornea: Complex Projective Geometry, București, 8-10 iulie 2016
<https://dl.dropboxusercontent.com/u/31273784/web/marian/PI65/Welcome.html>
16. Mihai Fulger: Positivity of cycles, San Jose, California, USA, 1–5 August 2016
<https://aimath.org/pastworkshops/poscycles.html>
17. L. Maxim: Singularities in the Midwest, III, University of Wisconsin-Madison, Madison, WI, March 21-24, 2016,
<http://www.math.wisc.edu/~maxim/Sing16.html>
18. L. Maxim: Focus Program on "Topology, Stratified Spaces and Particle Physics", Fields Institute, Toronto, Canada, August 8-26, 2016,
<http://www.fields.utoronto.ca/activities/16-17/stratifiedspaces>
19. C. Făciu: Sesiunea *Modèles mathématiques et méthodes numériques en mécanique des milieux continus* în cadrul XIII-ème Colloque Franco-Roumain de Mathématiques Appliquées, Universitatea Alexandru Ioan Cuza din Iași, 25 - 29 august, 2016
<http://www.math.uaic.ro/cfr2016/>
20. A. Diaconu, A. Popa: *Workshop on modular forms and Galois representations*, Bucharest, August 22-23, 2016
<http://vpasol.wixsite.com/modformgalrep>

21. A. Popa: *Fourth Bucharest Number Theory Day*, Bucharest, July 19, 2016
<http://imar.ro/apopa/NTday4.html>
22. Irina Nenciu: SIAM Conference on Nonlinear Waves and Coherent Structures, Philadelphia, August 8 – 11, 2016
<http://www.siam.org/meetings/nwcs16/>
23. Irina Nenciu: Scoala de iarnă ” Multi-scale methods and applications”, UIC, Martie 19–20, 2016.
24. Liviu Păunescu, Florin Rădulescu: Sofic Groups and Operator Algebra, Bucuresti, 26.09-30.09.2016
http://www.imar.ro/~fradules/SG_and_OA.html
25. D. Vuza: Membru in Comitetul director si in Comitetul stiintific ale conferintei 2016 IEEE 22th International Symposium for Design and Technology in Electronic Packaging SIITME, Bucuresti, octombrie 2016
www.sitme.ro
26. D. Timotin: International Conference on Operator Theory, Timișoara, 27.06–2.07 2016,
<https://operatortheory26.wordpress.com/>
27. F. Belgun: Workshop on *Conformal Geometry and Spectral Theory*, 11-13 Noiembrie 2016, Berlin.
<https://www.mathematik.hu-berlin.de/diffgeo/cgst/index.php>

7.2 Conferințe susținute

1. T. Albu: *The conditions (C_i) in rings, modules, categories, and lattices*, Session Algebra and Number Theory of the 12th International Conference on Approximation Theory and its Applications (ICATA 2016), Universitatea Lucian Blaga, Sibiu, mai 2016.
2. T. Albu, *Preradicals in modular lattices with applications to Grothendieck categories and torsion theories*, Technische Universität Wien, aprilie 2016.
3. Alexandru Constantinescu: *Deformations of Monomial Ideals*, University of Genoa, 2 Noiembrie 2016.
4. Mircea Cimpoeaș: *Stanley depth of a class of square-free monomial ideals*, Workshop for Young Researchers in Mathematics, Constanța, România, 19-22 mai.
5. Mircea Cimpoeaș: *On intersection of complete intersection ideals*, International meeting on numerical semigroups with applications, Levico Terme, Italia, 4-8 iulie 2016.
6. Cristodor Ionescu: *About almost Cohen-Macaulay rings*, Workshop on Algebra Research, Institut Teknologi Bandung, 14-15 October 2016.
7. Cristodor Ionescu, *Cohen-Macaulay and almost Cohen-Macaulay rings*, Workshop and Conference on Commutative Algebra, Tribhuvan University, Kirtipur, Kathmandu, 17-28 October 2016.

8. Cristodor Ionescu: *Some properties of almost Cohen-Macaulay rings*, Workshop on Algebra Research, Workshop and Conference on Commutative Algebra, Tribhuvan University, Kirtipur, Kathmandu, 17-28 October 2016.
9. Cristodor Ionescu: *Special classes of noetherian rings*, University Gadjah Mada, Yogyakarta, Indonesia, 5 December 2016.
10. Mihai D. Staic: *Secondary Hochschild Cohomology*, Ohio State-Denison Mathematics Conference, Columbus Ohio USA, May 13-15 2016.
11. Marian Anton: *From class field to arithmetic group cohomology*, The 8th Congress of Romanian Mathematicians, June 26 July 1, 2015, Iasi, Romania.
12. Constantin Năstăsescu: *Symmetric algebras of corepresentations and smash products*, Brauer groups, Hopf algebras and monoidal categories: A conference in honour of Stef Caenepeel on the occasion of his 60th birthday, 24–27 Mai, 2016, Universitatea din Torino, Italia.
13. N.C. Bonciocat: *Group deformations by rigid factor systems*, 19 mai 2016, în cadrul manifestării științifice: *Workshop for Young Researchers in Mathematics - 6th edition*, Ovidius University of Constanța, 19–22 may 2016.
14. Mihai Cipu: *Condiții necesare pentru existența cvintuplurilor diofantice*, Conferința Anuală a S. S. M. R., Baia Mare, 20 mai 2016.
15. Vasile Ursu: *Asupra unei scufundări a clasei de inele comutative în o clasă de bucle Jordan*. Ședință specială a Seminarului științific al Institutului de Matematică și Informatică al AȘM consacrată prof. Valentin Belousov, 19.02.2016 .
16. Laura Elena Năstăsescu: *Are graded semisimple algebras symmetric?* Workshop for young researchers in mathematics, Constanța, România, mai 19-22, 2016.
17. Laura Elena Năstăsescu: *Some results regarding σ -graded Frobenius algebras*, Brauer groups, Hopf algebras and monoidal categories Torino, Italia, mai 24-27, 2016.
18. Andrei Baran: *A Dolbeault-Grothendieck Resolution on Complex Spaces with Singularities*, The 14th Romanian-Finnish Seminar, 20-24 iunie 2016, Bucuresti.
19. Lucian Beznea: *On the existence of invariant measures for Markovian semigroups*, Stochastic Partial Differential Equations and Related Fields, 10-14 octombrie, Bielefeld, Germania.
20. Lucian Beznea: *Branching processes associated with Neumann nonlinear semiflows*, XIII-ème Colloque Franco-Roumain de Mathématiques Appliqués, 25-29 august 2016, Iași.
21. Lucian Beznea: *Measure-valued branching processes associated with Neumann nonlinear semiflows*, Current Issues in PDEs and Stochastics, 1 iunie 2016, București.
22. Lucian Beznea: *An equivalence between the Dirichlet and the Neumann problem for the Laplace operator*, Academia Romana 150 - Sesiune de Comunicări Institutul de Matematică "Octav Mayer", 5 martie 2016, Iași.

23. Cezar Joița: *Bifurcation locus of polynomial maps*, Geometric Function Theory in Higher Dimension, Cortona, 5 - 9 septembrie 2016.
24. Cezar Joița: *On the parametrization of germs of two-dimensional singularities*, Universitatea Babeș-Bolyai, Cluj-Napoca, 7 aprilie 2016.
25. Iulian Cîmpean: *On semimartingale functionals of Markov processes associated to lower bounded semi-Dirichlet forms*, Stochastic Partial Differential Equations and Related Fields, Bielefeld University, Germania, octombrie 10-14,
26. Iulian Cîmpean, *From excessive functions to semimartingales on Dirichlet spaces*, XIII-ème colloque Franco-Roumaine de mathématiques appliquées, Iasi, Romania, august 25-29.
27. Iulian Cîmpean: *Semimartingale functionals of Markov processes: a semigroup approach*, 4Th Summer school on Levy processes, Universite de Lille 1, Franta, iulie 18-22.
28. Iulian Cîmpean: *Semimartingales associated to Markov processes: a semigroup approach*, The 14th Romanian-Finnish Seminar, Bucuresti, Romania, iunie 20-24.
29. Iulian Cîmpean: *Semimartingale functionals of Markov processes: a semigroup approach*, Stochastic Analysis and Applications, Brasov, Romania, iulie 25-26.
30. Iulian Cîmpean: *Semimartingale functionals associated to Dirichlet forms*, Wotkshop for Young Researchers in Mathematics 6th edition, Constanta, mai 19-22.
31. Ovidiu Preda: *A theorem related to the Levi problem in Normal Stein spaces*, Workshop for Young Researchers in Mathematics, 6th edition, May 19-22, 2016.
32. Ovidiu Preda: *A characterization theorem for a particular case of the Serre problem*, International Conference on Complex Analysis and Related Topics, The 14th Romanian-Finnish Seminar, June 20-24, 2016, Bucharest, Romania.
33. Eugen Mihăilescu: *Dynamics for conformal maps on fractals*, International Conference on Complex Analysis and Related Topics and Romanian-Finnish Seminar, Bucharest, June 2016.
34. Eugen Mihăilescu: *Ergodic and geometric properties for systems with overlaps*, Department of Mathematics Invited Talk, University College Dublin, Ireland, Sep 2016.
35. L. Ignat: *Dispersion property for Schrödinger equations*, International Center for Advanced Studies, Universidad Nacional de San Martin, Buenos Aires, 26/04/2016.
36. L. Ignat: *Long-time behaviour for nonlocal convection-diffusion problems*, 3rd Conference on Nonlocal Operators and Partial Differential Equations, 27.06.2016 - 01.07.2016, Bedlewo, Poland.
37. L. Ignat, *Dispersion property for Schrödinger equations*, Workshop on geometry and PDEs, 10-11 June 2016, West University of Timioara, Romania 2016.
38. L. Ignat, *Long time behaviour of solutions for some nonlocal evolution equation*, IMAR, Stability and Control in Infinite Dimensional Systems, October 19, 2016.

39. I. Belțiță: *Banach space representations of nilpotent Lie groups, smooth vectors and pseudo-differential operators*, Noncommutative Analysis and Partial Differential Equations, Imperial College London, UK, 11–15 April 2016.
40. I. Belțiță: *On the spectral synthesis for coadjoint orbits of nilpotent Lie groups*, Probabilistic Aspects of Harmonic Analysis, at the Banach Center, Bedlewo, 14.05.2016–21.05.2016.
41. I. Belțiță; *On C^* -algebras of exponential Lie groups*, Groups and Operators, Chalmers University, Gothenburg, Sweden, August 15–18, 2016.
42. I. Belțiță: *On C^* -algebras of exponential Lie groups*, IMPAN Warsaw, Simons Semester "Noncommutative geometry the next generation", 01.09.2016–30.11.2016.
43. Mădălina Petcu: *On the viscous Cahn-Hilliard-Navier-Stokes equations with dynamic boundary conditions* 13ème colloque franco-roumain de mathématiques appliquées, Iasi, August 2016.
44. Mădălina Petcu: *On the viscous Cahn-Hilliard-Navier-Stokes equations with dynamic boundary conditions*, The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA, iulie 2016.
45. Radu Purice: *The Peierls-Onsager substitution*, Applied Mathematical and Numerical Methods, Craiova, 14-16 Aprilie 2016.
46. Vicențiu D. Rădulescu: *Singular phenomena in nonlinear elliptic equations*, Department of Mathematics, Stockholm University, 27.01.2016.
47. Vicențiu D. Rădulescu: *Effets multiples dans l'étude des problèmes elliptiques singuliers*, Journée d'Équations aux Dérivées Partielles, Université de Tunis, 16.03.2016.
48. Vicențiu D. Rădulescu: *Combined effects in nonlinear elliptic singular problems*, Journée d'Équations aux Dérivées Partielles, Université de Kairouan, 18.03.2016.
49. Vicențiu D. Rădulescu: *Variational Analysis of Some Classes of Equilibrium Problems*, 21-ème Colloque de la Société Mathématique de Tunisie, Hammamet, 21-24 martie 2016.
50. Vicențiu D. Rădulescu: *Combined singular effects in nonlinear problems*, International Conference on Applied Mathematics and Numerical Methods, Craiova, 14-16 aprilie 2016.
51. Vicențiu D. Rădulescu: *A characterization property for a class of fractional equations*, Third Conference on Recent Trends in Nonlinear Phenomena, University of Perugia, 28-30 septembrie 2016.
52. Vicențiu D. Rădulescu: *An existence property for a class of fractional equations*, Department of Mathematics, King Saud University, Riyadh, 18.10.2016.
53. G. Nenciu: *Perturbation theory for twisted integral operators: spectrum stability. An overview*, Solid Math 2016, May 2016, Aalborg, Danmark.
54. Pascu Mihai: *Pseudodifferential operators on nilpotent Lie groups of small nilpotence step*, 26th International Conference on Operator Theory, Timisoara, June 27 - July 2, 2016.

55. Vasile Drăgan: *On the linear quadratic optimization problems and associated Riccati equation for systems modeled by Ito linear differential equations*, Participation as a lecturer in the PhD course "Linear quadratic differential games and application", Sofia University "St. Kliment Ohridski", 10-12 May, Bulgaria, 2016.
56. Vasile Drăgan: *On computing the stabilizing solution of the algebraic Riccati equation arising in connection with a class of zero sum stochastic linear quadratic differential game*, Participation as a lecturer in the PhD course "Linear quadratic differential games and application", Sofia University "St. Kliment Ohridski", Bulgaria, 10-12 May 2016.
57. Vasile Drăgan: *Near optimal linear quadratic regulator for controlled systems described by Itô differential equations with several fast time scales*, Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2016), Laboratory of Mathematics and Physics, University of Perpignan, Perpignan, France, 30 Mai- 3 Iunie 2016.
58. Vasile Drăgan; *On the stabilizing solution of the Riccati equation arising in connection with discrete-time stochastic zero sum LQ dynamic games with periodic coefficients*, International Conference on Mathematical Methods and Scientific Computing (MMSC 2016), Dobrich, Bulgaria, 18 - 24 September 2016.
59. Vasile Drăgan: *Linear differential equations with positive evolution on ordered Banach spaces. Applications to control problems*, Workshop on Stability and Control in Infinite Dimensional Systems, IMAR, 19 Octombrie 2016.
60. Marian Aprodu: *Green's conjecture for curves on K3 surfaces*, Universitat de Barcelona (Spania), 5 februarie 2016.
61. Marian Aprodu: *Espaces de plans sécants et syzygies des courbes*, Institut de Math. Jussieu, Paris (Franța), 31 martie 2016.
62. Marian Aprodu: *Secant Loci and Syzygies*, Mediterranean Complex Projective Geometry, Carry-le-Rouet (Franța), 23-27 Mai 2016.
63. Marian Aprodu: *Syzygies and Secant Loci*, Positivity and Vanishing Theorems, Lille (Franța), 6-10 iunie 2016.
64. Marian Aprodu: *Syzygies and Secant Loci*, Geometria delle Varieta Algebriche, Levico Terme (Italia), 20-25 iunie 2016.
65. Marian Aprodu: *Equations and syzygies*, Colloquium, Max Planck Inst. Math. Bonn (Germania), 1 septembrie 2016.
66. Marian Aprodu: *Syzygies and secant spaces*, Humboldt Universität zu Berlin (Germania), 2 noiembrie 2016.
67. Mihai Fulger: *The structure of pseudoeffective cones*, Chicago, IL, USA, 11–13 martie.
68. Mihai Fulger: *Pozitivitate pentru ciclul numerici*, Constanța, Romania, 27 – 29 mai.
69. Laurențiu Maxim: *Characteristic Classes of Stratified Spaces* (2 ore), la Scoala de Vara din cadrul conferintei "Topology, Stratified Spaces and Particle Physics", Fields Institute, Toronto, Canada, 8-12 August 2016.

70. Laurențiu Maxim: *Alexander-type invariants of hypersurface complements*, Analysis, Geometry and Topology of Stratified Spaces, CIRM, Luminy, Franta, 13-17 Iunie 2016.
71. Laurențiu Maxim: *Characteristic classes of singular complex hypersurfaces*, Nonisolated Singularities', Lille, Franta, 30 Mai - 1 Iunie 2016.
72. Laurențiu Maxim: *Cohomology representations of external and symmetric products of varieties*, Workshop for Young Researchers in Mathematics', Constanta, Romania, 18-21 Mai 2016.
73. Laurențiu Maxim: *Topology of Singularities* (12 ore), la Scoala de Vara din cadrul conferintei "MIST IV: Mathematics Inspired by String Theory", Chinese University of Hong Kong, Hong Kong, 5 Aprilie - 4 Mai 2016.
74. Laurentiu Maxim: *Cohomology representations of external and symmetric products of varieties*, la conferinta "MIST IV: Mathematics Inspired by String Theory", Chinese University of Hong Kong, Hong Kong, 5 Aprilie - 4 Mai 2016.
75. Laurentiu Maxim: *Novikov homology of hypersurface complements*, 'Singularities and Topology Conference', Nisa, Franta, 7-9 Martie 2016.
76. Ovidiu Pășărescu: *On the Classification of Projective Embedded Curves*, International Conference on Applied Mathematics and Numerical Methods (ICAMNM), Craiova, April 14-16.
77. C. Raicu: *The syzygies of some thickenings of determinantal varieties*, Special Session on Homological Methods, XXI Coloquio Latinoamericano de Álgebra, Buenos Aires, July 2016.
78. C. Raicu: *The syzygies of some thickenings of determinantal varieties*, Midwest Commutative Algebra and Algebraic Geometry Conference, Notre Dame, May 2016.
79. C. Raicu: *The syzygies of some thickenings of determinantal varieties*, BIRS Workshop: Free Resolutions, Representations, and Asymptotic Algebra, Banff, April 2016.
80. Cristian Anghel: *(0; 2)-Mirror symmetry on surfaces*, Workshop for Young Researchers in Mathematics, May 19-20, 2016, Constanța.
81. Cristian Anghel: *A problem connected with Terao conjecture*, 24th CAIM Conference, 15-18 September, 2016, Craiova.
82. Cristian Anghel: *A stable version of Terao conjecture*, Mathematics-Informatics Colloquium with the occasion of 150 years from the foundation of the Romanian Academy, of the Royal House, and of the Modern Romanian State, 10-11 October, 2016, Curtea de Arges.
83. Florin Ambro: *On toric face rings*, EMS Summer School on Multigraded Algebra and Applications, Moeciu de Sus, Romania, August 17-24 2016.
84. Florin Ambro: *Curves with ordinary singularities*, Workshop on Complex Projective Geometry, University of Bucharest, July 8-10 2016.

85. Florin Ambro: *On toric log Fano varieties*, Conference on Positivity and Vanishing Theorems, Lille, June 6-10 2016.
86. Florin Ambro: *On representations by egyptian fractions*, Meeting of CNMB mathematicians, Ovidius University, May 27-28 2016.
87. Florin Ambro: *Curves with ordinary singularities*, Workshop for Young Researchers in Mathematics, Ovidius University, May 19-22 2016.
88. Florin Ambro: *On toric face rings*, Workshop at Ovidius University, Constanta, April 8 2016.
89. V. Brinzanescu, *Algebraic Complete Integrability of the Bloch-Iserles Systems*, Max-Planck Institute for Mathematics, Bonn, March 2016, seminar on Algebra, Geometry and Physics.
90. V. Brinzanescu: *On the Relationship between D' Angelo q-type and Catlin q-type*, International Conference on Complex Analysis and Related Topics, The 14-th Romanian-Finnish Seminar, June 20-24, 2016, Bucharest, Romania.
91. V. Brinzanescu: *Vector Bundles on Non-Kaehler Elliptic Fibrations*, International Conference "Complex Projective Geometry", Univ. of Bucharest and IMAR, July 08-10, 2016.
92. V. Brinzanescu: *Vector Bundles on Non-Kaehler Elliptic Fibrations*, Focus Program on Topology, Stratified Spaces and Particle Physics, Workshop on Singular Spaces in String and M-theory, August 15-19, 2016, Workshop on Stratified Spaces: Perspectives from Analysis, Geometry and Topology, August 22 - 26, 2016, Fields Institute, University of Toronto, Canada .
93. V. Brinzanescu: *Algebraic Complete Integrability of the Bloch-Iserles Systems*, CAIM 2016, The 24th Conference on Applied and Industrial Mathematics, University of Craiova, Romania, September 15-18, 2016.
94. Cristian Făciu: *Modeling temporal and spatial instabilities of the Portevin - Le Chatelier effect*, XIII-ème Colloque Franco-Roumain de Mathématiques Appliquées, Universitatea Alexandru Ioan Cuza din Iași, 25 - 29 august, 2016.
95. L. Badea: *Méthodes multigrille pour les inégalités contenant un terme non-différentiable*, XIII-ème Colloque Franco-Roumain de Mathématiques Appliquées, Université "Alexandru Ioan Cuza" de Iași, 25-29 Août, 2016.
96. Polișevschi Dan: *Homogenization of fluid movement through fractured porous media*, The 6th Workshop series on Mathematics, Pitești, 3-4 June 2016.
97. Ruxandra Stavre: *Variational analysis and optimization for two coupled fluids in a porous medium*, Saint-Etienne, Franța, aprilie 2016.
98. Gelu Pașa: *Some non-Newtonian effects in immiscible Hele-Shaw displacements*, Int. Conf. Appl. Math. and Numer. Analysis, Craiova, 14-16 aprilie 2016 (in memoriam Prof. Dr. Romulus Militaru).

99. Gelu Paşa: *On the displacement of two immiscible Stokes fluids in a 3D Hele-Shaw cell*, XIII-ème Colloque Franco-Roumain de Mathématiques Appliquées, Iaşi, 25-29 august 2016.
100. Gelu Paşa: *Some models for immiscible displacement in Hele-Shaw cells*, XI Workshop on Mathematical Modeling of Environmental and Life Science Problems, Constanţa, 12-16 octombrie 2016.
101. Andrei Popescu: *Verifying Confidentiality in Web-Based Systems*, DACS (Days of Computer Science), 3-4 Iulie, 2016.
102. Cristian Cobeli: *Cine sunt măiestrele și unde sălășluiesc ele*, Colocviul de Matematică-Informatică, Curtea de Argeş, 10-11 Octombrie 2016.
103. L. Leuştean: *Proof mining and applications*, Middlesex University London, 19.09.2016.
104. A. Popa: *An elementary proof of the Kronecker-Hurwitz class number relation*, Workshop for Young Researchers in Mathematics, Constanta, Mai 19–22, 2016.
105. A. Popa: *On the trace formula for congruence subgroups*, Geometric and Combinatorial Methods in Number Theory, Iaşi, Iulie, 2016.
106. Mihai Prunescu: *On diophantine subsets of \mathbb{Z}* , Workshop on Definability and Decidability in Number Theory, 23 - 29 Octombrie 2016, Mathematisches Institut Oberwolfach, Germania.
107. Andrei Sipoş: *Proof mining and families of mappings*, PhDs in Logic VIII, Darmstadt, Germania, 9-11 mai 2016.
108. Andrei Sipoş: *Proof mining and positive-bounded logic*, Logic Colloquium 2016, Leeds, Regatul Unit, 1-6 august 2016.
109. Andrei Sipoş; *Proof mining and positive-bounded logic*, DVMLG Colloquium Logicum 2016, Hamburg, Germania, 10-12 septembrie 2016.
110. R. Diaconescu: $\frac{3}{2}$ -*Institutions – an institution-theoretic perspective to theory blending* (keynote), From Computational Creativity to Creativity Science conference, Zentrum für interdisziplinäre Forschung, Bielefeld, Germany, September 2016.
111. Florin Nicolae: *On the class number of imaginary quadratic fields*, Universidad Nacional Autonoma de Mexico Oaxaca, 12.01.2016-31.03.2016
112. Florin Nicolae: *Are number fields determined by Artin L-functions ?*, Universitatea Lyon 1, 20.06.2016-25.06.2016
113. Daniel Belţiş: *Coadjoint dynamical systems and group C^* -algebras*, XXXV Workshop on Geometric Methods in Physics, Białowieża, Polonia, 26 iunie – 2 iulie 2016.
114. Daniel Belţiş: *Some special properties of group C^* -algebras*, 5th Summer Workshop on Operator Theory, University of Agriculture, Cracovia, Polonia, 5–9 iulie 2016.

115. Daniel Belțiță: *Groupoids, coadjoint dynamical systems of solvable Lie groups, and their C^* -algebras*, Seminar Sophus Lie, IMPAN, Będlewo, Polonia, 25 septembrie – 1 octombrie 2016.
116. Daniel Belțiță: *On group representations and orbits*, Seminarium IM, University of Białystok, Polonia, 2 noiembrie 2016.
117. Daniel Belțiță: *Groups, orbits, and representations*, Discussion Meeting on Linear Analysis, Orange County, Coorg, India, 27 noiembrie – 1 decembrie 2016.
118. Daniel Belțiță: *On the C^* -algebras of solvable Lie groups*, Recent Advances in Operator Theory and Operator Algebras, Indian Statistical Institute, Bangalore, India, 13 – 22 decembrie 2016.
119. Ionel Popescu: *Free Functional Inequalities on the circle*, French-Romanian Colloquium, Iași, 25-29 August 2016.
120. Ionel Popescu: *Deterministic couplings on model manifolds* Stochastic analysis and applications, Brașov, July 25-26, 2016.
121. Ionel Popescu: *Deterministic couplings on model manifolds*, Probabilistic and Analytic tools in Convexity, AMS, March 5-6, Athens Georgia, 2016.
122. Remus Nicoară: *Matrici Hadamard si Informatie Cuantica*, Colocviul Universitatii Tennessee, Knoxville USA (Ianuarie 2016).
123. Mihai Popa: *C-freeness: brief survey and new developments*, Conferinta OT26, Timișoara, Iunie-Iulie 2016.
124. Mihai Popa: *On the transpose of certain classes of random matrices*, 19th Colloquiumfest, Saskatoon, Canada.
125. Mihai Popa: *Non-commutative functions and free probability*, Complex Analysis and Non-Commutative Functions Workshop, Toulouse, Franța.
126. Viorel Nițică: *Tilings by ribbon L n -ominoes, n odd*, American Mathematical Society, National Meeting, Seattle, WA, January 2016.
127. Viorel Nițică: *Topological transitivity of extensions of hyperbolic systems with infinite dimensional fiber*, in the Session: Fractal Geometry, Dynamical Systems, and Their Applications, Orlando, FL, July 2016.
128. Viorel Nițică: *Topological transitivity of extensions of hyperbolic systems with infinite dimensional fiber*, XIII-eme Colloque Franco-Roumain de Mathematiques Appliquees, Iasi, Romania, August 2016.
129. Florin Rădulescu: *Spectral gaps and Hecke operators*, 26-th Operator Theory Conference, Timisoara, Iulie 2016.
130. Florin Rădulescu: *Quantum Dynamics and Operator Algebras with Applications In Number Theory*, Operator Algebra and Operator Theory, Institut Técnico Superior, Lisabona, Iulie 2016.

131. Florin Rădulescu: *Quantum Dynamics and Operator Algebras with Applications In Number Theory*, Colloquium Talk Seminarul de Analiza, Universitatea Aveiro, Portugalia, Iulie 2016.
132. Florin Rădulescu, "*Operator algebras and number theory*", Institutul de Matematică Hausdorff (Hausdorff Research Institute of Mathematics) Bonn, in Semestrul dedicat Algebrelor von Neumann, Iulie 2016.
133. Șerban Belinschi: *Spikes/outliers for polynomials in unitarily invariant random matrices*, Universität des Saarlandes, Saarbrücken, Germany, April 11 - April 15, 2016.
134. Șerban Belinschi: *A noncommutative version of the Julia-Carathéodory Theorem*, UC Berkeley, California, March 22 - 26, 2016.
135. Șerban Belinschi: *A Julia-Carathéodory Theorem for noncommutative functions (and some applications)*, Department of Pure Mathematics at the University of Waterloo, Waterloo, Ontario, February 5, 2016.
136. Dan Tudor Vuza, Marian Vlădescu: *Platform for monitoring the temperature of power LED junction by using the embedded protection diode*, 8th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2016, Ploiesti, Romania, 30 iunie 2016 - 2 iulie 2016.
137. Dan Tudor Vuza, Marian Vlădescu: *Enhanced automated platform for 2D characterization of RFID communications*, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies ATOM-N 2016, Constanta, Romania, 24 august 2016 - 28 august 2016.
138. C. Muscalu: Colloquium talk - Ohio State University - Octombrie, 2016.
139. C. Muscalu: Invited three hours lectures - Harmonic Analysis and its Applications, Matsumoto, Japan, February 2016.
140. C. Muscalu: Invited lecture - Ohio River Analysis Meeting, Lexington, Kentucky, USA, March 2016.
141. C. Muscalu: Invited lecture - Operator Theory 26 - Timisoara, Romania - July 2016. Spain.
142. C. Muscalu: Invited lecture - Probabilistic harmonic analysis and spectral theory - Mittag Leffler Institute, Djursholm, Sweden, July, 2016.
143. C. Muscalu; Invited lecture - Romanian - Finnish Analysis Seminar - IMAR, Bucharest, Romania, July, 2016.
144. C. Muscalu, Invited lecture - Northeastern Analysis Conference, Brockport, New York, USA, October, 2016.
145. C. Muscalu: Invited lecture - Analysis Seminar, Temple University, Philadelphia, USA, November, 2016.
146. Nicolae Popa: *Some quasi-Banach spaces of infinite matrices and their property*, al 14-lea Seminar Româno- Finlandez de Analiza Complexa - Bucuresti, iunie 2016.

147. A. Gheondea: *Operator models for locally C^* -modules*, Timișoara, June 27 – July 2, 2016.
148. A. Gheondea: *Operator models for locally C^* -modules*, Krakow, July 4 – 10, 2016.
149. A. Gheondea: *Closely embedded Krein spaces*, Vienna, December 17 – 21, 2016.
150. Gologan Radu: *Elementary versus non-elementary facts in mathematics*, MACOS-International Conference on Mathematics and Computer Science, Brașov 8-10 septembrie.
151. Radu Gologan: *Dimensiune și măsură în matematică*, Conferința Națională a Societății de Științe Matematice, Baia Mare, 19-22 mai 2016.
152. A. Torok: *Almost sure convergence of maxima for chaotic dynamical systems*, Statistical properties of dynamical systems, E. Schrödinger Institute, Vienna, Austria, May 2016.
153. A. Torok: *Central limit theorems for sequential and random intermittent dynamical systems*, The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, July 2016.
154. C. Sminchisescu: Universitatea Tehnica din Munchen (TUM), Germania.
155. C. Sminchisescu: ETH Zurich, Elvetia.
156. C. Sminchisescu: Universitatea din Darmstadt, Germania.
157. C. Sminchisescu: Universitatea din Edinburgh, Marea Britanie.
158. C. Sminchisescu: Ecole Normale Supérieure, Paris, Franța.
159. C. Sminchisescu: Google Research, Mountain View, California.
160. Gabriel Bădițoiu: *Classification of homogeneous Einstein metrics on pseudo-hyperbolic spaces*, Workshop for Young Researchers in Mathematics, Constanta, 19.05.2016.
161. Gabriel Bădițoiu: *Lax pair equations and Connes-Kreimer renormalization*, The XXIVth International Conference on Integrable Systems and Quantum symmetries, Praga (Cehia), 17.06.2016.
162. Dorin Cheptea: *Jacobi diagrams on surfaces and quantum invariants*, Workshop for Young Researchers in Mathematics, 6th edition, Contanța, România, May 19-22, 2016.
163. Daniel Matei: *Real Arrangements and Contact Structures*, Université de Lille 1, Workshop Non-Isolated Singularities, 1 iunie 2016.
164. Daniel Matei: *An Introduction to Character varieties I-II*, University of Luxembourg, Geometry Seminar, 6 și 11 aprilie 2016.
165. Dan Timotin; *Truncated Toeplitz operators – some recent results*, Complex Geometry and Operator Theory, Bangalore, 1–3 decembrie 2015.
166. C. Călinescu: *Principal subspaces of basic $A_{2n}^{(2)}$ -modules*, American Mathematical Society Meeting at Stony Brook University, Martie 2016.

167. Barbu Berceanu: *Spații de configurații*, Institutul de Matematică Simion Stoilow, iunie 2016.
168. Alexandra Otiman: *New constructions in locally conformally symplectic geometry*, Special Hermitian metrics on non-Kähler metrics Workshop, Universitatea Ulisse Dini din Florența, 20-22 Aprilie 2016.
169. Alexandra Otiman: *Morse-Novikov cohomology of locally conformally symplectic manifolds*, Geometric structures related to Hermitian and almost Hermitian manifolds Workshop, Universitatea Leibniz din Hanovra, Germania, 16-20 Mai 2016.
170. Sergiu Moroianu: *Renormalized volume in hyperbolic geometry*, Colloquium of the University of Fribourg (Switzerland, May 8-13, 2016).
171. Sergiu Moroianu: *Volumul renormalizat al varietatilor hiperbolice*, Geometry and PDEs Workshop, Universitatea de Vest, Timișoara (Romania, June 10-11, 2016).
172. Florin Belgun: *From Hill's equation to conformal geometry*, Workshop on Lie theory and geometry, 08-11 Martie 2016, Rauischholzhausen, Germania.
173. Florin Belgun: *Conformal Geodesics and related structures*, 7th European Congress of Mathematics, 18-22 Iulie 2016, Berlin, Germania.
174. Liana David: *Regular F-manifolds: initial conditions and Frobenius metrics*, Conferința Lunară IMAR, ianuarie 2016.
175. Liana David: *On cotangent manifolds, complex structures and generalized geometry*, Geometric structures related to Hermitian and almost Hermitian manifolds, Universitatea Leibniz, Hanover (Germania), 17 - 20 mai, 2016.
176. L. Ornea: *Recent results in LCS geometry*, ULB, Bruxelles, ianuarie 2016.
177. L. Ornea: *Geometry of LCK manifolds, I, II, III*, PosTech (Pohang), Korea, februarie 2016.
178. L. Ornea: *On the rank of LCK manifolds*, "Special Hermitian metrics on non-Kaehler manifolds", 20-22 April 2016, Florence.
179. L. Ornea: *LCK manifolds with potential*, "Complex and symplectic geometry", 12-18 June 2016, Cortona.
180. L. Ornea: *The embedding problem in differential geometry*, în cadrul seminarului de geometrie de la Univ. of New Mexico (Albuquerque), 7.09.2016.
181. L. Ornea: *LCK manifolds with potential*, în cadrul seminarului de geometrie algebrică de la Courant Institute, 13.09.2016.
182. L. Ornea: *LCK manifolds with potential*, în cadrul seminarului de geometrie diferențială de la Univ. din Hanovra, 28.11.2016.
183. R. Pantilie: *Embeddings of the Riemann sphere and quaternionic geometry I, II*, Dipartimento di Matematica, Università degli Studi di Ferrara, Italia, 11, 12 octombrie, 2016.

184. Ștefan Papadima: *A parallel between Kahler and Sasakian geometry*, IMAR Bucharest, 10 iulie 2016.
185. F. Panaite: *BiHom-structures*, Third Euro-Maghreb Conference in Algebra, Geometry and Lie Theory, Monastir (Tunisia), Martie 2016.
186. F. Panaite: *Twisted algebras and Rota-Baxter type operators*, Brauer groups, Hopf algebras and monoidal categories, Torino (Italia), Mai 2016.
187. Clement Radu Popescu: *Flat connections and quasi-projective varieties*, CONSTANȚA, 19-22 Mai 2016.
188. Costin Vilcu: *Lipiri, desfășurări, plieri*, Prima Conferință a Matematicienilor Mirciști, Constanța, 27.05.2015.
189. M. Pilca: *The Holonomy of Locally Conformally Kähler Metrics*, Workshop Geometric structures related to Hermitian and almost Hermitian manifolds, Leibniz Universität, Hannover, 17. - 20.05.2016.
190. M. Pilca: *On Toric Vaisman Manifolds*, Forschungsseminar Mathematische Physik, Phillips-Universität Marburg, 07.06.2016.
191. Răzvan Gabriel Iagăr: *Finite time extinction for diffusive Hamilton-Jacobi equations*, Colloque Franco-Roumain de Mathématiques Appliquées, Iași (Romania), 25-28 august 2016.
192. Răzvan Gabriel Iagăr: *Finite time extinction diffusive Hamilton-Jacobi equations*, IMAR București, 09 septembrie 2016.
193. Răzvan Gabriel Iagăr: *Matemáticas y ajedrez*, Colocviu organizat de Institutul Cervantes, Stockholm, Suedia, 18 aprilie 2016.
194. Răzvan Gabriel Iagăr: *Relaciones entre matemáticas y ajedrez*, Colocviu organizat de Institutul Cervantes, Sofia, Bulgaria, 14 mai 2016.

8 Alte activități

8.1 Conducere granturi

- Mihnea Colțoiu: Director grant Several Complex Variables ID-PCE-2011-3-0269.
- Sebastian Burciu: Director grant PN-II-RU-TE -168/2012.
- Dorin Popescu: Director grant ID-PCE-2011-1023.
- Marian Anton: CSU-AAUP Research Grant Award.
- Marian Anton: CCSU Curriculum Development Grant Award.
- Nicolae Ciprian Bonciocat: Responsabil temă de cercetare în echipa *Equations diophantiennes* în cadrul grantului ECO-Math (Groupement de Recherche International en Mathématiques visant l'Europe Centrale et Orientale - Director proiect: Radu Purice)

- Eugen Mihăilescu: Grant Ergodic Theory and Thermodynamic Formalism, Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France.
- Eugen Mihăilescu: Grant ICERM-Brown University, Providence, USA, in cadrul semestrului tematic Dimension and Dynamics, Martie 2016.
- Eugen Mihăilescu: CNRS-IMAR grant, Université Lille, France, May 2016.
- Liviu Ignat: Director Proiect IDEI PN-II-ID-PCE-2011-3-0075.
- Liviu Ignat: Director Proiect TE PN-II-RU-TE-2014-4-0007.
- Ingrid Belțiță: Director proiect *Harmonic Analysis on Solvable Lie Groups*, grant CNCS-UEFISCDI, cod RU-TE-2014-4-0370.
- Vicențiu Rădulescu: Director grant: *Qualitative and numerical analysis of nonlinear problems on fractals*, Grant CNCS Idei “Proiecte de Cercetare Exploratorie” (CNCS PCE-47/2011).
- Vicențiu Rădulescu: Director grant: *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).
- Marian Aprodu: Director grant CNCS Grant PN-II-PCE-2011-3-0288.
- Bogdan Ichim: Director grant PN-II-RU-TE-2012-3-0161.
- Laurențiu Maxim: *Singular Spaces in Geometry and Topology*, cercetare, 09/2013 – 08/2017, National Science Foundation (USA).
- Laurențiu Maxim: *Singular Spaces in Geometry and Topology*, cercetare, 2014 – 2016, National Security Agency (NSA).
- Laurențiu Maxim: *Stratified spaces in geometric and computational topology and physics*, conferinta, 2015 – 2016, National Science Foundation (USA).
- C. Raicu: Sloan Research Fellowship.
- V. Brinzanescu: Director de grant: PN-II-ID-PCE-2012-4-0156.
- Andrei Popescu: EPSRC first-grant EP/N019547/1, la Universitatea Middlesex London.
- Laurențiu Leuștean: Grantul IDEI PN-II-ID-PCE-2011-3-0383, *Proof mining in metric analysis, geometric group theory and ergodic theory*.
- Răzvan Diaconescu *Universal logic methods for computer science*, PN-II-ID-PCE-2011-3-0439, finanțat de UEFISCDI.
- P. Stănică: *ONR-Global Visiting Scientist Program Research Grant*, NPS and IIT-Roorkee, India.
- P. Stănică: *US-Slovenia cooperative grant* (with Prof. Enes Pasalic).

- Daniel Belțiță: Director Proiect *Calcul operatorial pentru reprezentări de grupuri Lie, cu aplicații la ecuații cu derivate parțiale și fizica cuantică*, PN-II-ID-PCE-2011-3-0131.
- 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, National Science Foundation, USA.
- Irina Nenciu: *Midwest Partial Differential Equations Seminar (DMS-1216549)*, grant pentru organizarea unei conferințe bianuale, 2012–2016, National Science Foundation, USA.
- Irina Nenciu: *Midwest Partial Differential Equations Seminar (DMS-11465011)*, grant pentru organizarea unei conferințe bianuale, 2015–2018, National Science Foundation, USA.
- Mihai Popa: Simons Foundation Collaboration Grant in Mathematics, 2015 – 2020.
- Florin Rădulescu: Director proiect CNCS - UEFISCDI, PN-II-ID-PCE-2012-4-0201.
- Liviu Păunescu: Director Proiect PN-II-RU-TE-2014-4-0669, CNCS - UEFISCDI, 2015-2017.
- C. Sminchisescu: Metode pentru recunoașterea tri-dimensională a obiectelor (350 KE).
- C. Sminchisescu: Modelarea cu acuratețe a persoanelor în video (250 KE / 550 KE).
- C. Sminchisescu: Interacțiunea multi-modală om-robot pentru îmbunătățirea imaginației la copiii cu autism (450 KE/4 ME).
- Dorin Cheptea: Director proiect CNCS-UEFISCDI PN-II-RU-TE-2012-3-0492.
- D. Timotin: Director proiect *Teoria operatorilor multidimensională. Spații cu nucleu reproducător, funcții necomutative, probleme de momente și rezultate de dilatare generalizată*, PN-II-ID-PCE-2011-3-0119.
- L. David: Director proiect *Structuri hermitiene și cuaternionice pe varietăți și aplicații*, PN-II-ID-PCE-2011-3-0362.
- L. David: Bursă Humboldt, timp de aproximativ 7 luni (în 2016), la Universitatea din Hamburg.
- L. Ornea: Director proiect IDEI, PN-II-ID-PCE-2011-3-0118.
- Corina Călinescu: Investigator principal al grantului "Collaboration Grants for Mathematicians", #318810, Simons Foundation, 2014-2019.
- Corina Călinescu: Investigator principal al PSC-CUNY grant TRADA-47-254, #691640047, 2015-2016.

8.2 Conducere doctorate

- M. Vâjăitu: Cosmin-Constantin Nițu, doctorand în stadiul de elaborare al tezei(IMAR).
- Mihnea Colțoiu: Ovidiu Preda si-a sustinut teza de doctorat sub conducerea lui Mihnea Colțoiu in octombrie 2016.
- Liviu Ignat: Andreea Grecu, doctorand în co-tutelă cu Liviu Marin, FMI-UB-IMAR.
- Radu Purice: Alexandru Mustățea - doctorand în anul I de pregatire doctorala, admis in Octombrie 2015.
- Dorin Popescu: 2 doctoranzi de la ASSMS Lahore.
- Marian Aprodu: Filip Chindea -doctorand la Universitatea din București (din octombrie 2016).
- V. Rădulescu: are în prezent trei doctoranzi.
- Laurențiu Maxim: au susținut teza în 2016: Yun Su, 2016 Ph.D., University of Wisconsin-Madison (USA) și Kai Ho Wong, 2016 Ph.D., University of Wisconsin-Madison (USA).
- Laurențiu Maxim: are 2 doctoranzi: Christian Geske, anul III, University of Wisconsin-Madison (USA) și Eva Elduque, anul III, University of Wisconsin-Madison (USA).
- Andrei Popescu: Lorenzo Gheri, student in anul doi la doctorat.
- Laurențiu Leuștean: Andrei Sipoș este doctorand din 2015.
- P. Stănică: 2 doctoranzi: Thor Martinsen, 2013; Spyridon Pollatos, 2013.
- Remus Nicoară: doctorand Chase Worley, Universitatea Tennessee, Knoxville.
- Mihai Popa: Co-îndrumător (împreuna cu Yong Jiao, Central South Univ., China) pentru Zhiwei Hao.
- Aurelian Gheondea: doctorand Serdar Ay, Weaky Positive Semidefinite Kernels, Graduate School of Science and Engineering, Bilkent University, Ankara, Turkey.
- A. Torok: doctorand Justin Schoneman.
- C. Sminchisescu: Are 6 doctoranzi.
- Barbu Berceanu: Muhamad Yameen, doctorand la ASSMS Lahore.
- L. Ornea: Alexandra Otiman și Miron Stanciu doctoranzi la Școala doctorală de Matematică a Universității din București.

8.3 Membru în colective editoriale

- Toma Albu: Editor la: Gazeta Matematică Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie, Analele Științifice ale Universității Ovidius Constanța, Communications in Algebra, Turkish Journal of Mathematics.
- Constantin Năstăsescu: Editor la: Analele Universității din București, Revue Roumaine des Mathématiques Pures et Appliquées, Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie, Analele Științifice ale Universității "Ovidius" din Constanța, Seria Matematică, Analele Universității din Craiova, Seria Matematică - Informatică, Mathematica (Cluj).
- Mihai Cipu: Editor la: Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie, Gazeta Matematică - Seria A.
- Lucian Beznea Editor la: Ann. Univ. București, Advances in Pure and Applied Mathematics, Revue Roumaine Math. Pures Appl., Math. Reports, Proc. Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Information Science.
- Mihea Colțoiu: Editor la: Acta Math. Apulensis, Proc. Rom. Academy.
- George Marinescu: Editor la: Annals of Global Analysis and Geometry.
- Eugen Mihăilescu: Editor la: Discrete and Continuous Dynamical Systems–series S.
- Mădălina Petcu: Editor la: Differential and Integral Equation, Applied Mathematics and Optimization, Asymptotic Analysis.
- V. Rădulescu: Editor-in-Chief la: Advances in Nonlinear Analysis, Boundary Value Problems, Annals of the University of Craiova - Mathematics and Computer Science Series.
- V. Rădulescu: Editor la: Mathematics in Science and Engineering - Book Series, Academic Press.
- V. Rădulescu: Editor la: Nonlinear Analysis: Theory, Methods & Applications, Journal of Mathematical Analysis and Applications.
- V. Rădulescu: Member of the Editorial Board la: "MATHlics Research Paper Series Applied MATHematics Journal for EconomICS", Journal of Numerical Analysis and Approximation Theory (Romanian Academy), Ann. St. Univ. Ovidius Constanta, Opuscula Mathematica (Krakow University).
- Vasile Drăgan: Associate Editor la: International Journal on Innovative Computing, Information and Control, IJICIC, ICIC - Express Letters, IET - Control Theory and Applications.
- Marian Aprodu: Membru colectiv editorial la: Revue Roumaine Math. Pures Appl., Math. Reports.
- V. Brinzanescu: Editor sef la: Math. Rep. si Revue Roumaine Math. Pures Appl.
- V. Brinzanescu: Editor la: Proc. Romanian Academy, An. St. Univ Ovidius Constanta, Bull. SSMR, Serdica Math. J., Bull. Univ Polit. Bucuresti.

- L. Badea: Editor la: Annals of the A. R. S., Series on Mathematics and its Applications
- Andrei Popescu: Membru in colectivul editorial la: Current Trends in Theory and Practice of Computer Science (SOFSEM), Interactive Theorem Proving (ITP), International Joint Conference on Automated Reasoning (IJCAR), Certified Programs and Proofs (CPP).
- Răzvan Diaconescu: Editor la: Studies in Universal Logic - book series at Springer Basel, Switzerland, International Journal of Mathematics and Mathematical Sciences at Hindawi Publishing Corporation, USA, International Scholarly Research Notices.
- P. Stănică: Associate editor la: Discrete Applied Mathematics, European Journal of Pure and Applied Mathematics, Journal of Discrete Mathematics. Member of Board of Directors – Fibonacci Association
- P. Stănică: Member of Board of Directors la: Fibonacci Association.
- Daniel Beltiță Membru in comitetul editorial la: Analele Științifice ale Universității „Al.I.Cuza” din Iași —Matematică.
- : Dorin Popescu: Editor la: Bull. Math. Soc. Sci. Math. Roumanie, Analele Univ. Bucuresti.
- Florin Rădulescu: Editor la: Journal of Operator Theory.
- Nicolae Popa: Membru în colectivul editorial la: Proc. Rom. Acad. Math.
- A. Gheondea: Editor Asociat la: Journal of Operator Theory.
- A. Gheondea: Editor: Complex Analysis and Operator Theory, Opuscula Mathematica, Journal of Function Spaces.
- C. Sminchisescu: Associate Editor, IEEE Transaction on Pattern Analysis and Machine Intelligence.
- C. Sminchisescu: Area Chair, European Conference on Computer Vision, ECCV 2016.
- C. Sminchisescu: Program Committee: Neural Information Processing Systems NIPS 2015; IEEE Conference on Computer Vision and Pattern Recognition CVPR 2016; International Conference on Machine Learning, ICML 2016.
- Călin Popescu: Editor la: Gazeta Matematică – Seria A, Romanian Mathematical Competitions.
- D. Timotin: Membru in colectiv editorial la: Journal of Operator Theory, Revue Roumaine de Mathématiques Pures et Appliquées, Mathematical reports, Analele Științifice ale Universității “Alexandru Ioan Cuza” din Iași, Matematică.
- Florin Nichita: Editor la: Axioms.
- L. Ornea: Editor la: Mathematical Reports, Revue roumaine de mathématiques pures et appliquées, Bulletin mathématique de la SSMR, Annals of the University of Bucharest (Math. series).

- Ștefan Papadima: Editor la: Revue Roumaine de Mathématiques Pures et Appliquées, Mathematical Reports.

8.4 Lucrări acceptate la publicat

1. T. Albu, M. Iosif: *Modular C_{11} lattices and lattice preradicals*, **J. Algebra Appl.**, 16 (2017), 1750116, 19 pag.
2. T. Albu, *The conditions (C_i) , $i = 1, 2, 3, 11, 12$, in rings, modules, categories, and lattices*, **Contemporary Math.**, American Math. Soc., Providence (2017), 30 pagini.
3. Mircea Cimpoeas *On the Stanley depth of the path ideal of a cycle graph*, acceptată la **Rom. J. Math. Comput. Sci.**, pag. 5.
4. Victor Alexandru, Marian Văjăitu, Alexandru Zaharescu: *Isometric Galois actions over p -adic fields*, acceptată la **Bulletin Mathématique**, pag. 1 – 8.
5. C. Bereanu, M. Zamora: *Periodic solutions for indefinite singular perturbations of the relativistic acceleration*, acceptată la **Proc. Royal Soc. Edinburgh - A**, 12 pag.
6. A. Popescu, D. Popescu: *A method to compute the General Neron Desingularization in the frame of one dimensional local domains*, va apare în in ”**Singularities and Computer Algebra - Festschrift for Gert-Martin Greuel On the Occasion of his 70th Birthday**”, Editors Wolfram Decker, Gerhard Pfister, Mathias Schulze, Springer Monograph.
7. D. Popescu: *Artin approximation property and the General Neron Desingularization*, va apare în **Revue Roum. Math. Pures et Appl.**, 2017.
8. G. Pfister, D. Popescu, *Constructive General Neron Desingularization for one dimensional local rings*, va apare în **J. Symbolic Computation**, 2017. .
9. I. Beltiță, D. Beltiță, J. Ludwig: *Fourier transforms of C^* -algebras of nilpotent Lie groups*, acceptată la **Int. Math. Res. Not. IMRN** doi: [10.1093/imrn/rnw040](https://doi.org/10.1093/imrn/rnw040).
10. N. Papageorgiou, Vicențiu D. Rădulescu: *Infinitely many nodal solutions for semilinear Robin problems with an indefinite linear part*, Applied Mathematics Letters 64 (2017), 42-50.
11. G. Molica Bisci, Vicențiu D. Rădulescu, R. Servadei: *Competition phenomena for elliptic equations involving a general operator in divergence form*, acceptata la Analysis and Applications, pag. 32.
12. G. Afrouzi, Vicențiu D. Rădulescu, S. Shokooh: *Multiple solutions of Neumann problems: an Orlicz-Sobolev space setting*, acceptată la **Bulletin of the Malaysian Mathematical Sciences Society**, pag. 21.
13. N. Papageorgiou, Vicențiu D. Rădulescu: *Multiplicity theorems for nonlinear nonhomogeneous Robin problems*, acceptată la **Revista Matematica Iberoamericana**, pag. 31.
14. N. Papageorgiou, Vicențiu D. Rădulescu: *Robin problems with indefinite and unbounded potential, resonant at $-\infty$, superlinear at $+\infty$* , acceptată la **Tohoku Math. J.**, pag. 21.

15. L. Li, Vicențiu D. Rădulescu, D. Repovš: *Nonlocal Kirchhoff superlinear equations with indefinite nonlinearity and lack of compactness*, acceptată la **International Journal of Nonlinear Sciences and Numerical Simulation**, pag. 12.
16. N. Papageorgiou, Vicențiu D. Rădulescu: *Superlinear, noncoercive asymmetric Robin problems with indefinite, unbounded potential*, acceptată la **Z. Anal. Anwend.**, pag. 32.
17. G. Molica Bisci, Vicențiu D. Rădulescu: *A sharp eigenvalue theorem for fractional elliptic equations*, acceptată la **Israel J. Math.**, pag. 19.
18. N. Papageorgiou, Vicențiu D. Rădulescu: *Multiplicity of solutions for Robin problems with double resonance*, acceptată la **Ann. Sc. Norm. Sup. Pisa**, pag. 42.
19. Vasile Drăgan, Hiroaki Mukaidani: *Optimal control for a singularly perturbed linear stochastic system with multiplicative white noise perturbations and Markovian jumping*, acceptată la **Optimal Control Applications and Methods (OCAM)**, pag. 16.
20. Marian Aprodu, Laura Costa, Rosa Maria Miro-Roig: *Rank two vector bundles on non-minimal ruled surfaces*, acceptată la **Trans. Amer. Math. Soc.**
21. Marian Aprodu, Edoardo Sernesi: *Excess dimension for secant loci in symmetric products of curves*, acceptată la **Collectanea Math.**
22. B. Ichim, L. Katthän, J. J. Moyano-Fernández: *How to compute the Stanley depth of a module*, acceptată la **Math. of Computation.**
23. Mihai Fulger, Brian Lehmann: *Positive cones of dual cycles*, acceptată la **Algebraic Geometry**, pag. 28
24. Mihai Fulger, Brian Lehmann: *Kernels of numerical pushforwards*, acceptată la **Adv. Geom.**, pag. 6.
25. Mario Maican: *On two moduli spaces of sheaves supported on quadric surfaces*, acceptată la **Osaka J. Math.**, pag. 10.
26. S. Cappell, L. Maxim, J. Schürmann, J. Shaneson, S. Yokura: *Characteristic classes of symmetric products of complex quasi-projective varieties*, acceptata la **J. Reine Angew. Math.** (published online); DOI: 10.1515/crelle-2014-0114.
27. L. Maxim, M. Saito, J. Schürmann: *Hirzebruch-Milnor classes and Steenbrink spectra of certain projective hypersurfaces*, acceptată la **Proceedings of the 2013 Arbeitstagung** (to appear), arXiv:1312.0392.
28. S. Friedl, L. Maxim: *Twisted Novikov homology of complex hypersurface complements*, acceptată la **Math. Nachr.** (published online); DOI: 10.1002/mana.201600242.
29. L. Maxim, J. Schürmann: *Characteristic classes of mixed Hodge modules and applications*, acceptata la **Proceedings of IMPANGA15** (to appear), arXiv:1307.5152.
30. Pășărescu Ovidiu: *Singularities of Normal del Pezzo Surfaces of degrees 1 and 2*, acceptata la **Proceedins of ICAMNM**, University of Craiova, 5 pag.

31. A. C. Lőrincz, C. Raicu, U. Walther, J. Weyman: *Bernstein–Sato polynomials for maximal minors and sub-maximal Pfaffians*, acceptată la **Adv. Math.**
32. C. Raicu, J. Weyman: *Local cohomology with support in ideals of symmetric minors and Pfaffians*, acceptată la **J. London Math. Soc.**
33. C. Raicu: *Characters of equivariant \mathcal{D} -modules on Veronese cones*, acceptată la **Trans. Amer. Math. Soc.**
34. C. Raicu, J. Weyman: *The syzygies of some thickenings of determinantal varieties*, acceptată la **Proc. Amer. Math. Soc.**
35. Ionescu-Kruse Delia: *Exact steady azimuthal edge waves in rotating fluids*, acceptata la **Journal of Mathematical Fluid Mechanics**, pag. 1–13.
36. L. Badea: *Moreau’s regularization-based multigrid method for variational inequalities of the second kind*, acceptata la **Numerical Algorithms**, pag. 28.
37. L. Badea: *Global convergence rates of some multilevel methods for variational and quasi-variational inequalities*, acceptata in **Proceedings of the 23rd International Conference on Domain Decomposition Methods**, Korea, July 6-10, 2015, pag. 8.
38. Isabelle Gruais, Dan Poliřevski: *Heat transfer models for two-component media with interfacial jump*, acceptată la **Applicable Analysis**.
39. Jasmin Christian Blanchette, Andrei Popescu, Dmitriy Traytel: *Soundness and completeness proofs by coinductive methods*, acceptată la **Journal of Automatic Reasoning**.
40. Jasmin Christian Blanchette, Sascha Böhme, Andrei Popescu, Nicholas Smallbone: *Encoding monomorphic and polymorphic types*, acceptată la **Logical Methods in Computer Science**.
41. Constantin N. Beli, Florin Stan and Alexandru Zaharescu: *An effective bound for the cyclotomic Loxton-Kedlaya rank*, acceptată la **Glasg. Math. J.**
42. U. Kohlenbach, L. Leuştean, A. Nicolae: *Quantitative results on Fejér monotone sequences*, acceptată la **Communications in Contemporary Mathematics**.
43. L. Leuştean, V. Radu, A. Sipoş: *Quantitative results on the Ishikawa iteration of Lipschitz pseudo-contractions*, acceptată la **Journal of Nonlinear and Convex Analysis**.
44. Mihai Prunescu: *Homomorphisms of abelian p -groups produce p -automatic recurrent sequences*, acceptată la **Combinatorica**.
45. Andrei Sipoş, *Codensity and Stone spaces*, acceptată la **Mathematica Slovaca**.
46. Andrei Sipoş, *A note on the Mann iteration for k -strict pseudocontractions in Banach spaces*, acceptată la **Numerical Functional Analysis and Optimization**.
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48. Andrei Sipoş, *Effective results on a fixed point algorithm for families of nonlinear mappings*, **Annals of Pure and Applied Logic** **168** (2017), pag. 112–128.
49. R. Diaconescu: *Functorial semantics of first-order views*, **Theoretical Computer Science**, DOI: 10.1016/j.tcs.2016.09.009.
50. R. Diaconescu: *Implicit Kripke semantics and ultraproducts in stratified institutions*, **Journal of Logic and Computation**, DOI:10.1093/logcom/exw018.
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53. S. Gangopadhyay, A. Gangopadhyay, S. Pollatos, P. Stănică: *Biased cryptographic Boolean functions*, acceptată la **Cryptography and Communications (Discrete Structures, Boolean Functions and Sequences)**.
54. F. Luca, P. Stănică, *Counting permutation equivalent degree six binary polynomials invariant under the cyclic group*, acceptat la **Applicable Algebra in Engineering, Communication and Computing**.
55. D. Beltiţă, K.-H. Neeb: *Polynomial representations of C^* -algebras and their applications*, acceptat la **Integral Equations and Operator Theory** (DOI: 10.1007/s00020-016-2335-9).
56. D. Beltiţă, A. Zergane: *Amenability and representation theory of pro-Lie groups*, acceptată la **Math. Z.** (DOI: 10.1007/s00209-016-1779-6).
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58. Şerban T. Belinschi, Hari Bercovici, Mireille Capitaine, Maxime Février: *Outliers in the spectrum of large deformed unitarily invariant models*, acceptată la **Annals of Probability**, pag. 59.
59. Liviu Păunescu: *Unitaries in ultraproduct of matrices*, acceptată la **Journal of Operator Theory**.
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62. M. Nicol, A. Torok, S. Vaienti. *Central limit theorems for sequential and random intermittent dynamical systems*, acceptată la **Ergodic Theory and Dynamical Systems**.
63. Cătălin Badea, Laurian Suciu, Dan Timotin: *Classes of contractions and Harnack domination*, acceptată la **Revista Matematica Iberoamericana**.

64. Isabelle Chalendar, Emmanuel Fricain, Dan Timotin: *Recent results on truncated Toeplitz operators*, acceptată la **Completeness problems, Carleson measures, and spaces of analytic functions**, AMS, Contemporary Mathematics (Proceedings of Mittag-Leffler Conference).
65. B. Berceanu, A. Măcinic, Șt. Papadima, R. Popescu: *On the geometry and topology of partial configuration spaces of Riemann surfaces*, acceptată la **Algebraic and Geometric Topology**, pag. 22.
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2. Mircea Cimpoeaş, Florin Nicolae: *On the restricted partition function*, arxiv.org 1609.06090, pag. 21.
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4. Mircea Cimpoeaş: *A class of square-free monomial ideals associated to two integer sequences*, arxiv: 1604.02933, pag. 15.
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15. I. Chiose, R. Răşdeaconu, I. Şuvaina: *Balanced Manifolds and SKT Metrics*, arXiv: 1608.08721.

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47. S. Gangopadhyay, B. Mandal, P. Stănică: *Gowers $U3$ norm of Maiorana-McFarland bent Boolean functions*, submitted.
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68. A. Popa, M. Zanfir, C. Sminchisescu: *Deep Multitask Architecture for Integrated 2D and 3D Human Sensing*, preprint IMAR TR/2016.
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72. Artal Bartolo, J. Cogolludo, D. Matei: *On quasi-projectivity of fundamental groups of algebraic links*, preprint 2016.
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78. Alexandra Otiman: *Morse-Novikov cohomology of locally conformally Kähler surfaces*, arXiv:1609.07675.
79. Alexandru Dimca, Denis Ibadula, Anca Măcinic: *Numerical invariants and moduli spaces for line arrangements*, preprint arXiv:1609.06551.
80. Dmitri V Alekseevsky, Liana David: *Prolongation of Tanaka structures: an alternative approach*, arxiv:1603.00700/2016, pag. 28.
81. L. Ornea, M. Verbitsky: *Hopf surfaces in locally conformally Kähler manifolds with potential*, arXiv:1601.07421, 10 p.
82. R. Pantilie: *Projective structures and ρ -connections*, preprint arXiv: 1603.01711, pag. 9.
83. Ș. Papadima, A. Suciu: *The topology of compact Lie group actions through the lens of finite models*, preprint arXiv:1511.08948v2, 36 pag.
84. Ș. Papadima, A. Suciu: *Naturality properties and comparison results for topological and infinitesimal embedded jump loci*, preprint arXiv: 1609.02768v1, 44 pag.
85. F. Madani, A. Moroianu, M. Pilca: *Conformally related Kähler metrics and the holonomy of lcK manifolds*, preprint arxiv: 1511.09212.
86. F. Madani, A. Moroianu, M. Pilca: *On toric locally conformally Kähler manifolds*, preprint arxiv 1611.01707.

8.6 Cooperări științifice

- Au fost inițiate și redactate de către Radu Purice următoarele propuneri de colaborări internaționale acceptate și care vor demara începând cu 1 Ianuarie 2017:
 - Rețeaua de tip GDRI *ECO-Math* organizată de CNRS (Franta) în colaborare cu Academia de Științe din Ungaria și Academia Română (2017-2020).
 - Centru Francofon de Matematică organizat în cadrul IMAR în colaborare cu Agenția Universitară a Francofoniei și în parteneriat cu Universitatea din București.

- Delia Ionescu-Kruse este membru în echipa de cercetare a grantului European ERC Advanced Grant project no. 267116/(2011-2016), *Nonlinear studies of water flows with vorticity* (NWFV), Director de proiect: Prof. Dr. A. Constantin, Universitatea din Viena, Austria.
- Delia Ionescu-Kruse: Cercetător invitat: 01/2016-03/2016: Facultatea de Matematică, Universitatea din Viena, Austria.
- Ruxandra Stavre participă la proiectul GDRI de colaborare cu Franța și Ungaria.
- Ruxandra Stavre: vizită de cercetare la Institute Camille Jordan UMR CNRS 5208, Saint-Etienne, Franța, 15 martie-14 aprilie 2016.
- Cristian Sminchisescu: Seminar Romania-Franta (IMAR-INRIA), Accurate Human Modeling in Video, noiembrie 2016 - ianuarie 2017 (Grenoble).
- Alexandru Popa: vizită de cercetare de 2 săptămâni la Institutul de Matematică Max Planck din Bonn (colaborare cu Don Zagier).
- Mihaela Pilca: vizită de cercetare la MSRI Berkeley(20.02.2016 - 31.03.2016).
- Mihaela Pilca: vizită de cercetare la Universitatea din Versailles(03.10.2016 - 12.10.2016).
- Andrei Sipoș: vizită de cercetare la Universitatea din Sevilla, Spania, iunie 2016.
- Florin Nicolae: vizită de cercetare la Universidad Nacional Autonoma de Mexico Oaxaca, Mexic, 12.01.2016-31.03.2016.
- Liviu Păunescu: participare la semestrul organizat in Viena de *Measured Group Theory*, ESI, Viena, ianuarie-martie 2016.
- Anca Măcinic: vizită de cercetare la Oberwolfach Research Institute for Mathematics, în perioada August 7.08.2016-19.08.2016 (grant *Research In Pairs* obținut în colaborare cu Alexandru Dimca (Nisa) și Denis Ibadula(Constanța)).
- Laura Năstăsescu: vizită de cercetare la Universitatea Fudan, Shanghai, China, 4-28 iunie, 2016
- Cristodor Ionescu: Profesor vizitator: 01/10/2016-15/12/2016: Institut Teknologi Bandung, Indonezia.