

Raport Anual

Institutul de Matematică "Simion Stoilow" al Academiei Române

2013

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6 Lucrări acceptate la publicat și preprinturi

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3. V. Ursu and A. Covalschi: *Quasiniidentities of finitely generated nilpotent A -loop*, Preprint series of the Institute of Mathematics of the Romanian Academy.
4. Mihai Pascu *Melin calculus on homogeneous Lie groups - Seminar notes*, preprint IMAR, numar 2/2013, pag. 1-23
5. Florin Rădulescu: *Conditional expectations, traces, angles between spaces and Representations of the Hecke algebras*, preprint arhiva arXiv:1301.4425, pag. 20
6. Florin Rădulescu: *A von Neumann algebra splitting of the double action of a discrete group G on its profinite completion, by left and right multiplication, and the Ramanujan Petersson conjectures*, preprint arhiva arXiv:1306.4232, pag. 17
7. Florin Rădulescu: *On unbounded, non-trivial Hochschild cohomology in finite von Neumann algebras and higher order Berezin's quantization*, arXiv:1309.1377, pag. 16
8. A.C. Cojocaru, H. Iwaniec si N. Jones, *The average asymptotic behaviour of the Frobenius fields of an elliptic curve*, curent 45 pagini.
9. A.C. Cojocaru si Á. Tóth, *Squarefree orders for the reductions of an elliptic curve over a function field*, curent 10 pagini.
10. A.C. Cojocaru, R. Davis, A. Silverberg, si K.E. Stange, *Frobenius traces for abelian surfaces*, curent 13 pagini.
11. Samia Ashraf, Barbu Berceanu "Cohomology of 3-points configuration spaces of complex projective spaces" preprint ASSMS nr 482 (December 2012), 20 pages.

12. I. Gruais, D. Poliřevski: *Fluid flows through fractured porous media along Beavers-Joseph interfaces*, Institut de Recherche Mathématique de Rennes, Prépublication 13-44, pag. 1-18
13. I. Gruais, D. Poliřevski, F.-A. Stanesco: *The effective permeability of fractured porous media subject the Beavers-Joseph contact law*, Institut de Recherche Mathématique de Rennes, Prépublication 13-91, pag. 1-17

7 Conducere granturi

- Ionel Popescu: European Union - Marie Curie grant (IRG) - *Stochastic Analysis, Mass Transportation and Free Probability*, 2010-2014.
- Alexandru Popa: Director, Marie Curie International Reintegration grant financed by the European Commission at IMAR, October 2009–September 2013
- Radu Purice: co-Director Roman al Laboratorului European Asociat CNRS - Academia Romana de *Matematica si Modelizare*.
- Radu Purice: In echipa de management a Proiectului POSDRU ID. 62988, *Cercetarea tiinific economic, suport al bunstrii i dezvoltrii umane n context european*.
- Radu Purice: Monitorizeaza din partea IMAR activitatea din cadrul Proiectului POSDRU ID.82514, *Doctoratul in stiinte fundamentale - inceputul unei cariere de varf in cercetare*.
- C. Făciu: Coordonator echipa de cercetare a IMAR in cadrul Proiectului PN-II-ID-100-PCCE-6/2010 *Modelarea continuă - de la micro la macro scară - a materialelor avansate in fabricația virtuală*, subcontract cu Universitatea Tehnică din Cluj-Napoca.
- Vasile Brinzanescu: Director de grant PN-II-ID-PCE-2012-4-0156
- Mihnea Coltoiu: Directorul grantului “Several Complex Variables”, ID-PCE-2011-3-0269
- Răzvan Diaconescu: *Universal logic methods for computer science*, PN-II-ID-PCE-2011-3-0439, finanțat de UEFISCDI.
- Sebastian Burciu: Conducătorul grantului PN-II-RU-TE-2012-03-168.
- Sergiu Moroianu: Director de proiect, grant RU-TE-2011-3-0053 “Quantum invariants in hyperbolic geometry”.
- Daniel Belțiță: 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.
- Dan Tiba: Grant PCE 0211 CNCS Romania (contract 145/2011).
- Philippe Gille: Spatii aritmetice omogene PN-II-ID-PCE-2012-4
- Nicusor Costea: Differential inclusions and Nonsmooth Variational Problems in Nonlinear Analysis and Applications PN-II-RU-PD-2011-3-0032 0032
- Mircea Dan Hernest: Optimized program synthesis from proofs RU-TE-2011-3-0122
- Ionel Popescu: Aleatoriu, Probleme Geometrice si Inegalitati Functionale PN-II-RU-TE-2011-3-0
- Ioan Romeo Ionescu: Mathematical Modeling of Ductile Rupture ID-PCE-2011-3-0045
- Dana Bereanu: Linear and nonlinear multivalued operators PN-II-RU-PD-0052
- Cristian Sminchisescu: Large Scale Models for Multi-class Three-dimensional Visual Object Recognition -ID-PCE-2011-3-0438
- Anda-Georgiana Olteanu: Homological algebra and combinatorics in commutative algebra RU-PD-2012-3-0235

- Adriana Nicolae: Topics in nonlinear analysis and ergodic theory on uniformly convex geodesic spaces PD-2012-3-0152
- Dan Timotin: Directorul Proiectului PN-II-ID-PCE-2011-3-0119 *Teoria operatorilor multidimensională. Spații cu nucleu reproducător, funcții necomutative, probleme de momente și rezultate de dilatare generalizată.*
- Dorin Cheptea: Director, Grant CNCS-UEFISCDI, proiect number PN-II-RU-TE-2012-3-0492.
- Dorin Popescu: Director al grantului ID-PCE-2011-3-1023.
- Florin Ambro: Grantul *Inele log canonice (PN-II-RU-TE-2011-3-009)*, RU Tinere Echipe 2011-2014, 703290 lei, finantat de CNCS - UEFISCDI
- Florin Rădulescu: Director al grantului Algebre de Operatori si aplicatii in Teoria Numerelor, Idei 2012,PN-II-ID-PCE-2012-4-0201
- Laurențiu Leuștean: Grantul IDEI PN-II-ID-PCE-2011-3-0383 (Octombrie 2011 - Octombrie 2014), Proof mining in metric analysis, geometric group theory and ergodic theory
- Liana David: Directorul grantului *Structuri hermitiene si cuaternionice pe varietati si aplicatii*, cod proiect PNII-ID-PCE-2011-3-0362.
- Liviu Ignat: *Analysis, Control and Numerical Approximations of Partial Differential Equations*, IDEI, 01/10/2011-30/09/2014, ANCS-UEFISCDI
- Liviu Ignat: *Qualitative properties of partial differential equations and their numerical approximations*, Resurse umane, Tinere Echipe, 28/07/2010 - 27/07/2013, ANCS-UEFISCDI
- Bogdan Ichim: Directorul grantului PN-II-RU-TE-2012-3-0161.
- Marian Aprodu: CNCS Grant PN-II-PCE-2011-3-0288
- Alina Cojocaru: Cercetator Principal pentru grantul „NSF Career Award” (USA), DMS 0747724.
- Anca Macinic: Director grant PD, identificator PN-II-RU-PD-2011-3-0149, gazduit de Universitatea din Bucuresti, 5.10.2011-4.10.2013.
- Eugen Mihailescu: Grant de cercetare de lunga durata, ”Sisteme Dinamice si Teorie Ergodica Diferentiabila”, Institut des Hautes Études Scientifiques (IHÉS), Paris, Franta.
- 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 conferinte bianuale, 20012–2015, \$48000, National Science Foundation, USA.
- Liana David: “Humboldt Research Fellowship” pentru “Experienced Researchers”
- Liviu Ornea: “Geometrie local conform Kaehler si structuri inrudite”, <http://gta.math.unibuc.ro/vuli>, CNCS UEFISCDI, proiect PN-II-ID-PCE-2011-3-0118.
- Nicolae Bonciocat: Grant “*Méthodes effectives dans l’étude des polynômes et des équations diophantiennes*”, *LEA-Math Mode 2013* - responsabil temă de cercetare.
- Rareș Rădeaonu: In 2013, proiectul de cercetare cu titlul ”Deformation techniques in real enumerative geometry and Kähler geometry” a fost depus și aprobat de către ”Simons Foundation”, SUA (Award Number: 281266).
- Vincențiu Rădulescu: *Sisteme diferențiale în analiza neliniară și aplicații*, Grant CNCS “Proiecte Complexe de Cercetare Exploratorie” (2010-2013, CNCS PCCE-8/2010)
- Vincențiu Rădulescu: *Qualitative and numerical analysis of nonlinear problems on fractals*, Grant CNCS Idei “Proiecte de Cercetare Exploratorie” (2011-2014, CNCS PCE-47/2011)

- P. Stanica: *Constructions of cryptographic Boolean functions*, project with TLNUS, Singapore.
- P. Stanica: *Side-channel attacks*, project with TLNUS, Singapore.
- P. Stanica: ONR-Global Visiting Scientist Program Research Grant

8 Conducere doctorate

- Urmatorii cercetatori IMAR si-au sustinut teza de abilitare in 2013:
 - Lori Badea
 - Cristian Bereanu
 - Liana David
 - Liviu Ignat
 - Laurentiu Leustean
 - Sergiu Moroianu
 - Gelu Pasa
- Lucian Beznea: conducatorul de doctorat al Speranței Vlădoiu, Oanei Lupașcu (la IMAR și la Universitatea Paris 13, co-tutelă cu Prof. Ioan R. Ionescu) si al lui Andrei Oprina care vor sustine teza de doctorat in 2013.
 - Serban Stratila: conducatorul de doctorat al lui Mihaita Berbec si Catalin Dragan
 - Mihnea Coltoiu: conducatorul de doctorat al lui Ovidiu Preda si George Ionita
 - Alina Cojocaru: Conducator lucrare de doctorat a candidatului Abel Castillo, University of Illinois at Chicago, USA.
 - Barbu Berceanu: în octombrie două doctorande și-au susținut tezele la ASSMS, G.C. University, Lahore: Samia Ashraf, si Haniya Azam.
 - Daniel Belțiță este conducător de doctorat al lui Mihai Nicolae.
 - D. Polișevski: conducator de doctorat al lui Cristian Cotoarba, Florentina-Alina Stanescu si Dumitru Adina
 - Dan Tiba: conducator de doctorat al Roxanei Nicolai si al Diane Merlusca.
 - Dorin Popescu: Conduce la doctorat pe Mihai Epure, Andrei Zarojanu si pe George Teseleanu
 - Florin Boca: Joseph Vandehey, Ph.D. Dissertation title: *Error Term Improvements for van der Corput Transforms*, University of Illinois Urbana-Champaign, 2013.
 - Irina Nenciu: Deniz Bilman, student doctorand, Department of Mathematics, University of Illinois at Chicago.
 - Liviu Ornea: Conducator de doctorat la Universitatea din Bucuresti al lui Ion Dinca care a sustinut teza pe 3.09.2013.
 - Marian Vâjăitu: drd-IMAR Cosmin-Constantin Nitu.
 - Constantin Năstăsescu: în prezent, are un doctorand în curs de finalizare a tezei.
 - Răzvan Diaconescu: co-advisor of Madeira, Alexandre PhD thesis, MAP-i (joint doctoral programme in informatics of the universities Minho, Aveiro and Porto), Portugal, 2013
 - Toma Albu: conducator de doctorat al lui Apostol Brăduț, si Petrescu Lucian
 - Vincențiu Rădulescu: Diana-Nicoleta Udrea, teza de doctorat susținută la 30.10.2013 la Universitatea din Craiova.
 - Vincențiu Rădulescu: in prezent are 8 doctoranzi (anii I-III).

- V. Ursu: Conducător științific al doctorandului Alexandru Covalschi, teza de doctorat susținută la 23.08. 2013 în cadrul Consiliului 111.03 - Algebra, Logica matematică și Teoria numerelor din Institutul de Matematică și Informatică al Academiei de științe a Moldovei.

- Florian Enescu: Studentul Sara Malec a primit doctoratul in matematica sub conducerea lui la Georgia State University, in luna august 2013.

- Adrian Diaconu: Conducătorul tezei de doctorat (împreună cu Dorian Goldfeld) a lui Ian Whitehead, student graduat la Columbia University din New York.

- P. Stanica: conducator de doctorat pentru Jong H. Chung, 2010–2013, Thor Martinsen, 2012–, Spyridon Pollatos, 2013–

9 Membri în colective editoriale

- 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

- Gheorghe Păn: Seria Matematică-Informatică a *Analelor Universității din București*

- Gheorghe Păn: Seria Matematică-Informatică a *Analelor Universității Al.I. Cuza din Iași*

- Gheorghe Păn: Seria Matematică-Informatică a *Analelor Universității din Oradea*

- Gheorghe Păn: *Journal of Automata, Languages, and Combinatorics*, Universitatea din Magdeburg, Germania

- Gheorghe Păn: *Romanian Journal of Information Science and Technology*

- Gheorghe Păn: *Computer Science Journal of Moldova*, Academia Moldovei, Chișinău

- Gheorghe Păn: *International Journal of Unconventional Computing*

- Gheorghe Păn: *Progress in Natural Science* (Elsevier and Science in China Press)

- Gheorghe Păn: *Journal of Information Systems & Operations management* (Univ. Româno-Americană)

- Gheorghe Păn: *Economic Computation and Economic Cybernetics Studies and Research* (ASE București)

- Gheorghe Păn: *International Journal of Computers, Communication, and Control*, Univ. Oradea

- Vasile Brinzanescu: editor sef la *Math. Rep*

- Vasile Brinzanescu: editor sef la *Revue Roum. Math. Pures Appl.*

- Vasile Brinzanescu: editor la *Bull. Math. Soc. Sci 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.*

- Mihnea Coltoiu: *Proc. Romanian Academy*

- Mihnea Coltoiu: *Acta Universitatis Apulensis* (Alba Iulia)

- Vlad Timofte: Editor Asociat, *Australian Journal of Mathematical Analysis and Applications* (AJMAA).

- Vincențiu Rădulescu: Editor in Chief of *Advances in Nonlinear Analysis* (Walter de Gruyter)
- Vincențiu Rădulescu: Associate Editor of *Nonlinear Analysis: Theory, Methods & Applications* (Elsevier)
- Vincențiu Rădulescu: Associate Editor of the *Journal of Mathematical Analysis and Applications* (Elsevier)
- Vincențiu Rădulescu: Member of the Editorial Board of *Complex Variables and Elliptic Equations* (Taylor & Francis)
- Vincențiu Rădulescu: Associate Editor of *Boundary Value Problems* (Springer)
- Vincențiu Rădulescu: Associate Editor of the *Electronic Journal of Differential Equations*
- Vincențiu Rădulescu: Acquisition Editor, *de Gruyter–Versita Book Publishing Program in Mathematics*
- Vincențiu Rădulescu: Editor of *Advances in Pure and Applied Mathematics* (Walter de Gruyter)
- Vincențiu Rădulescu: Associate Editor of *Discrete and Continuous Dynamical Systems, Series S* (American Institute of Mathematical Sciences)
- Vincențiu Rădulescu: Member of the Editorial Committee of *Opuscula Mathematica* (Krakow University)
- Vincențiu Rădulescu: Member of the Editorial Board of “MATHlics Research Paper Series Applied MATHematics Journal for EconomICS” (edited by MEDAlics–Research Centre on Mediterranean Relations)
- Vincențiu Rădulescu: Member of the Editorial Board of *Revue d’Analyse Numérique et de Théorie de l’Approximation* (Romanian Academy)
- Vincențiu Rădulescu: Honorary Editor of the *International Journal of Mathematical Analysis* (Hikari)
- Vincențiu Rădulescu: Member of the Editorial Board of *Ann. St. Univ. Ovidius Constanta*
- Vincențiu Rădulescu: Member of the Editorial Advisory Board of the *Journal of Advanced Mathematical Studies*
- Vincențiu Rădulescu: Editor in Chief of the *Annals of the University of Craiova - Mathematics and Computer Science Series*
- Vasile Drăgan: Editura: International Journal of Innovative, Computing, Information and Control.
- Vasile Drăgan: Editura: ICIC - Express Letters.
- Toma Albu: *Gazeta Matematică*.
- Toma Albu: *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie*.
- Toma Albu: *Communications in Algebra*, Taylor & Francis Group, Philadelphia (fost Marcel Dekker, Inc., New York).
- Toma Albu: *Analele Științifice ale Universității Ovidius Constanța*.
- Ștefan Papadima: *Revue Roumaine de Mathématiques Pures et Appliquées*
- Ștefan Papadima: *Mathematical Reports*
- Răzvan Diaconescu: *Studies in Universal Logic* book series at Springer Basel, Switzerland.
- Răzvan Diaconescu: *International Journal of Mathematics and Mathematical Sciences* at Hindawi Publishing Corporation, USA.
- Răzvan Diaconescu: *ISRN Algebra* at Hindawi Publishing Corporation, USA.
- Paltin Ionescu: Editor șef la *Annali dell’Università di Ferrara* (Springer).
- Paltin Ionescu: Editor la *Analele Universității din București*.

- Constantin Năstăsescu: Analele Universității din București, Seria Matematică.
- Constantin Năstăsescu: Revue Roumaine de Mathématiques Pures et Appliquées.
- Constantin Năstăsescu: Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie.
- Constantin Năstăsescu: Analele Științifice ale Universității "Ovidius" din Constanța, Seria Matematică.
- Constantin Năstăsescu: Analele Universității din Craiova, Seria Matematică - Informatică.
- Constantin Năstăsescu: Mathematica (Cluj).
- Mihai Prunescu: Am scris reviews pentru Zentralblatt Mathematik si pentru Mathematical Reviews.
- Mihai Cipu: Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie
- Mihai Cipu: Gazeta Matematică, Seria A
- Marian Aprodu: Revue Roumaine Math. Pures Appl.,
- Marian Aprodu: Math. Reports
- Liviu Ornea: Bulletin Math. Soc. Sci. Math. de Roumanie, Revue Roumaine de Math. Pures et Appliqués, Math. Reports, Annals of the University of Bucharest (Mathematics)
- Laurențiu Leuştean: Membru in colectivul editorial al revistei International Journal of Mathematics and Mathematical Sciences
- Florin Rădulescu: Journal of Operator Theory
- Florin Nichita: Axioms, MDPI (ISSN 2075-1680) – membru în colectivul editorial.
- Florin Nichita: Membru în colectivul editorial al volumului Advanced computational technologies, Romanian Academy Publishing (2012), ISBN: 978-973-27-2256-5.
- Alina Cojocaru: Editor asociat pentru *International Journal of Number Theory*
- Andrei Popescu: Logical Frameworks and Meta-Languages: Theory and Practice (LFMTP) 2013 (workshop ACM: <http://complogic.cs.mcgill.ca/lfmtp13>)
- Călin Popescu: Editor la *Gazeta Matematică — Seria A și Romanian Mathematical Competitions Series*, ISSN 2066-6446, ale Societății de Științe Matematice din România.
- D. Polișevski: Comitetul Științific al celei de a 35-a editie a Conferinței "Caius Iacob" de Mecanica Fluidelor si aplicatiile ei tehnice, București, 14-15.11.2013, www.incas.ro
- 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
- Dan Timotin: editor asociat la *Journal of Operator Theory*.
- Dorin Popescu: Central European Math J. (Springer)
- Dorin Popescu: Bulletin Soc. de Stinte Mat. din Romania
- Dorin Popescu: Analele Univ. Ovidius, Analele Univ. Buc.
- Eugen Mihăilescu: Discrete and Continuous Dynamical Systems—series S, publicat de American Institute of Mathematical Sciences (USA).
- P. Stanica: *European Journal of Pure and Applied Mathematics* (Associate Editor)
- P. Stanica: *Journal of Discrete Mathematics* (Associate Editor 2012–present)
- P. Stanica: Member of Board of Directors – Fibonacci Association
- Adrian Constantinescu: Acta Universitatis Apulensis, S. Mathematics-Informatics

10 Organizări de conferințe

Institutul de Matematica "Simion Stoilow" al Academiei Române a organizat în 2013 următoarele conferințe internaționale:

- Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society 27-30 Iunie, 2013, Alba Iulia, Romania.

- Program Committee: Marian Aprodu, Lucian Beznea, Ioana Dumitriu, Radu Gologan, Tudor Ratiu, Daniel Tataru, Yuri Tschinkel, Steven H. Weintraub.

- Organizing Committee: Lucian Beznea, Daniel Breaz, Radu Gologan, Cezar Joita, Radu Purice, Bogdan Vernescu.

Cercetatori din IMAR care au organizat sesiuni speciale:

- Marian Aprodu (Algebraic Geometry)

- Liviu Ignat (Calculus of Variations and Partial Differential Equations)

- Cristodor Ionescu (Commutative Algebra)

- Lori Badea (Domain Decomposition Methods and their Applications in Mechanics and Engineering)

- Daniel Matei (Geometry and Topology of Arrangements of Hypersurfaces)

- Lucian Beznea (Mathematical Finance, Stochastic Analysis, and Partial Differential Equations)

- Toma Albu (Noncommutative Ring Theory and Applications)

- Florin Radulescu (Operator Algebra and Noncommutative Geometry)

- Aurelian Gheondea și Dan Timotin (Operator Theory and Function Spaces)

- Ionel Popescu (Random Matrices and Free Probability)

- Cezar Joita (Several Complex Variables, Complex Geometry and Dynamics)

- Stefan Papadima (Topics in Geometric and Algebraic Topology)

<http://imar.ro/ams-ro2013/description.php>

- Conferința în memoriam Pál Erdős, Béla Szökefalvi Nagy și Gyula Vályi, October 29, 2013. În colaborare cu Institutul Maghiar din București.

- The 11-th International Workshop on Differential Geometry and its Applications - Ploiești, 19 - 22 Septembrie, 2013, Ploiești. Organizatori: Liana David și Radu Iordanescu.

<http://www.imar.ro/purice/Inst/2013/dif-geom-13.htm>

- Locally Free Seminar at IMAR, 13-14 Septembrie, 2013, București. Organizator: Florin Ambro.

<https://sites.google.com/site/lfgseminars/>

- 12th International Conference on Discrete Mathematics, 7-11 Septembrie, 2013, București. Organizator: Tudor Zamfirescu.

<http://tzamfirescu.tricube.de/conference12.html>

- The 21st National School on Algebra. 2-6 Septembrie, 2013, Bucharest. Organizatori: Viviana Ene, Mihai Epure, Miruna Rosca, Dumitru Stamate, Marius Vladoiu, Andrei Zarojanu

<http://math.univ-ovidius.ro/sna/edition.aspx?cat=GeneralInfo&itemID=7>

• Noncommutative Geometry and Applications, 1-8 Septembrie, 2013, Poiana Brasov. Organizatori: Fabio Cipriani, Daniele Guido, Radu Purice, Florin Rădulescu, Stéphane Vassout
<http://imar.ro/NGA/description.php>

• Experimental and Theoretical Methods in Algebra, Geometry and Topology. 21-24 Iunie, 2013, Eforie Nord. Organizatori: Marian Aprodu, Wladimir-Georges Boskoff, Viviana Ene, Denis Ibadula, Anca Macinic, Nicolae Manolache, Alexandru Suci
<http://math.univ-ovidius.ro/Conference/ETMAGT60/GeneralInfo.htm>

• Conferinta Omagiala Nicu Boboc la 80 de Ani April 16, 2013. Organizator: Lucian Beznea
<http://www.imar.ro/purice/Inst/2013/afis-NBoboc-Conf-Omagiala13-1.pdf>

Institutul de Matematica "Simion Stoilow" al Academiei Române a organizat in 2013 urmatoarele conferinte naționale:

• Workshop for Young Researchers in Mathematics (3-rd edition), 9-10 Mai, 2013, Constanta. Organizatori: Constantin Costara, Cristian Enache, Denis Ibadula, Liviu Ignat, Anca-Daniela Macinic, Alexandru Popa.
<http://math.univ-ovidius.ro/Workshop/2013/WYRM/index.htm>

• CABIRIA ANDREIAN-CAZACU LA 85 DE ANI - CONFERINTA OMAGIALA, 22 Februarie 2013, Bucuresti. Organizator: Lucian Beznea.
http://www.imar.ro/organization/activities/standalone/afis-conferinta_cabiria-A4.pdf

Membrii IMAR au fost implicati in organizarea urmatoarelor conferinte:

• Dan Vuza: Membru in Comitetul director, in Comitetul stiintific si in comisiile de evaluare ale conferintei 2013 IEEE 19th International Symposium for Design and Technology in Electronic Packaging SIITME, Galati, octombrie 2013,
www.siitme.ro

• Lucian Beznea: *Anniversary Conference Faculty of Sciences - 150 years*, August 29 - September 1, 2013, Bucharest
<http://fmi.unibuc.ro/FMI-150/>

• Șerban Bărcănescu: Organizator la AMAA Conference-Universitatea Ovidius-Constanta, 3-6 aprilie 2013,
<http://amaa.2013.wikispaces.com/home>

• Adrian Diaconu: Workshop: *Combinatorics, Multiple Dirichlet series and Analytic Number Theory*, ICERM, Providence, RI, U.S.A., April 15–19 2013,
<http://icerm.brown.edu/sp-s13-w3>

• Vincențiu Rădulescu: International Workshop on Variational Problems and PDE's, September 2–6, 2013, Sao Paulo, Brazil
<http://www.ime.usp.br/~varprob2013/>

- Vincențiu Rădulescu: 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.math.ucv.ro/~radulescu/articles/Hugo2014.pdf>
- Toma Albu: A XVII-a Conferința Anuală a SSMR, Botosani, 18-20 octombrie 2013
http://www.rms.unibuc.ro/news1/conferinta_SSMR
- Ruxandra Stavre: The 35-th Caius Iacob Conference on Fluid Mechanics and its Technical Applications, București, 14-14 noiembrie 2013,
www.incas.ro
- Rareș Rășdeaonu: Conferința: ”Kähler Geometry on the Edge”- Shanks Workshop, Vanderbilt University, Nashville, SUA, 22-23 martie 2013, co-organizată în colaborare cu I. Șuvaina, and B. Gürel
<http://www.math.vanderbilt.edu/%7Eesuvaini/Workshop-2013/>
- Nicolae Bonciocat: A new approach in theoretical and applied methods in algebra and analysis, Constanța, Romania, 4-6 aprilie 2013,
<http://amaa-2013.wikispaces.com/home>
- Nicolae Bonciocat: Workshop on Algebraic and Analytic Number Theory and Their Applications, Constanța, Romania, 23-24 mai 2013,
<http://math.univ-ovidius.ro/Workshop/2013/Number-Theory/program.htm>
- Mihai Pascu: The 11-th international workshop on differential geometry and its applications, Ploiesti, 19-22 septembrie, 2013
<http://www.imar.ro/purice/Inst/2013/dif-geom-13.htm>
- Mihai Epure: Algebraic Methods in Combinatorics, Bucuresti, 1-7 septembrie 2013,
<http://math.univ-ovidius.ro/sna/edition.aspx?itemID=7>
- Liviu Ornea: Facultatea de Stiinte 150, Bucuresti, 28.08-1.09 2013,
<http://fmi.unibuc.ro/FMI-150/>
- Alina Cojocaru, Alex Popa: Bucharest Number Theory Day, Bucharest, July 16, 2013
<http://dl.dropboxusercontent.com/u/745435/web/NTday.html>
- Alina Cojocaru: Decembrie 9-13, 2013, *Co-organizator* (cu Sanoli Gun, Purusottam Rath, si R. Thangadurai) al *Conference on Analytic Theory of Automorphic Forms*, Institute of Mathematical Sciences, Chennai, India
<http://www.imsc.res.in/automorph/>
- Alina Cojocaru: Octombrie 15-17, 2013, *Co-organizator* (cu Chantal David, Hershy Kisilevsky, si Francesco Pappalardi) al *SCHOLAR, a scientific celebration highlighting open lines of arithmetic research*, în onoarea celei de-a 60a zile de naștere a lui M. Ram Murty, Centre de Recherches Mathématiques, Montréal, QC, Canada
http://www.crm.umontreal.ca/2013/SCHOLAR13/index_e.php
- Alina Cojocaru: Mai 14-19, 2013, *Organizator* al *Collaborative Explorations and Developments in Arithmetic Research*, University of Illinois at Chicago, USA.
<http://homepages.math.uic.edu/cojocaru/events-cedar.html>
- Corina Călinescu: AMS meeting, Special Session on Representation Theory, Combinatorics and Categorification, Temple University, Philadelphia PA, USA, Octombrie 2013 (co-organizator împreună cu A. Douglas, J. Sussan și B.V. Steirteghem)

- Costin Vilcu : organizator local, *12th International Conference on Discrete Mathematics: Discrete Geometry and Alexandrov surfaces*, București, 7-11 septembrie 2013, <http://tzamfirescu.tricube.de/conference12.html>
- Dan Tiba: System Modelling and Optimization, minisesiune "Shape Optimization and Free Boundary Problems", Klagenfurt, 8-13 Septembrie 2013, <http://ifip2013.uni-klu.ac.at/>
- Adrian Constantinescu: 21-th International Conference on Applied and Industrial Mathematics (CAIM 2013) - Algebra, Logic and Geometry (with applications), Bucharest, University of Bucharest, September 26 - 29, 2013.
- Adrian Constantinescu: 6-th International Conference of Differential Geometry and Dynamical Systems [DGDS-2013], Bucharest, "Politecnica" University, October 10-13, 2013,

11 Conferințe susținute

- Lucian Beznea: "O. Mayer" Institute of Mathematics, Iași, Romania, March 2013
- Lucian Beznea: Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, June 27-30, 2013, Alba Iulia, Romania
- Lucian Beznea: "Bielefeld Stochastic Summer", Bielefeld, Germany, August 2013
- Lucian Beznea: International Conference on Applied and Pure Mathematics (ICAPM 2013), November 2013, Iași
- Lucian Beznea: Seminar de Analiză, 21 noiembrie 2013, Academia Română, București, Romania
- Vasile Brinzanescu: Conf. AMS - SSMR de la Alba Iulia
- Vasile Brinzanescu: Conf. Intern. Dimca-Papadima, Eforie
- Vasile Brinzanescu: Centrul de Geometrie si Fizica de la Pohang Korea
- Vasile Brinzanescu: Conf. 150 de ani de la infiintarea Facultatii de Stiinte (Matematica) a Univ. Bucuresti
- Vasile Brinzanescu: TED/CERN la IFA Magurele.
- Ionel Popescu: ProbaGeo 2013 at Luxembourg, Oct 28-31, 2013, Univ. of Luxembourg
- Ionel Popescu: Monthly Lecture, IMAR, Friday, October 18, 2013
- Ionel Popescu: 150 years anniversary of University of Bucharest, Aug. 30 - Sept. 1, 2013, Bucharest, Romania
- Ionel Popescu: AMS-RMS, Probability and Other Related Fields, June 27-30 2013, Alba Iulia, Romania
- Ionel Popescu: Stochastic Differential Geometry, May 29-31 2013, Rennes, France
- Ionel Popescu: Heat Kernels, Stochastic Processes and Functional Inequalities, 5-11 May, Oberwolfach Germany
- Dragos Deliu: Homological Projective Duality via VGIT, Birational Geometry and Geometric Invariant Theory Vienna May 21-24, 2013
- Dragos Deliu: Homological Projective Duality via VGIT, Third Latin Congress on Symmetries in Geometry and Physics, February 10, 2013, Maranho, Brazil
- P. Stanica: *Attacks on RSA and its variations* at Number Theory Day at UNAM-Morelia, August 2013.
- P. Stanica: *Thirty years of attacks on RSA*, 1st Congress of the Americas, Guanajuato, August 2013.
- Șerban Bărcănescu: Combinatorial Methods in the study of Algebraic Singularities -in cadrul

AMAA Conference, Constanta aprilie,2013

- Șerban Bărcănescu: Combinatorics on Finite Fields I- in cadrul Workshop on Number Theory - Constanta 23-26 mai 2013
- Udrea Bogdan: Inner amenability for groups and central sequences in factors, 2013 Wabash Miniconference;
- T. Zamfirescu, How many Alexandrov surfaces are Riemannian?, 6th World Conference on 21st Century Mathematics 2013, Lahore, Pakistan, 6 – 9 martie 2013.
- T. Zamfirescu, Cut locus and critical points, Anniversary Conference, Faculty of Sciences - 150 years, Bucuresti, România, 29 august - 1 septembrie 2013.
- Cristodor Ionescu: An open problem in Commutative Algebra - Anniversary Conference - 150 years Faculty of Science, Bucuresti, August 2013
- Cristodor Ionescu: Examples of two-dimensional regular rings -World Conference 2013 - Martie 2013, Lahore, Pakistan.
- Marian Anton: Teaching and Learning Advanced Mathematics, MathFest, Hartford, CT, Aug 2013
- Alex Constantinescu: Generic deformations of matroid ideals, Syzygies in Berlin, mai 2013.
- Alex Constantinescu: Generic and special constructions of pure O-sequences, la Joint AMS-RMS Meeting, Alba Iulia, iunie 2013.
- Adrian Diaconu: *On Higher Moments of Quadratic Dirichlet L-Functions*, 150 de ani de la înființarea Facultății de Științe, Universitatea din București, 29 August–1 Septembrie, 2013.
- Adrian Diaconu: *On Higher Moments of Quadratic Dirichlet L-Functions*, Conferința: Stark's Conjectures and Related Topics, U.C. San Diego, 20-22 Septembrie, 2013.
- Bogdan Ichim: "How to compute the multigraded Hilbert depth of a module" la Universitatea Valladolid, 22-02-2012.
- Bogdan Ichim: "Introduction to Normaliz 2.9" in cadrul YMIS 2013 (Young Mathematicians in Segovia, Segovia, Spain), 25.02.2013–29.02.2013
- Bogdan Ichim: "An algorithm for computing the multigraded Hilbert depth of a module", Universitatea Osnabrück, 05-11-2013.
- Vlad Timofte: *Generalized Dini theorems for nets of functions on arbitrary sets* la Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, Alba Iulia, 27–30 iunie 2013.
- Viorel Nitica: *The structure of max-plus hemispaces*, International workshop TROPICAL-12 on tropical and idempotent mathematics, Moscow, Russia, August, 2012.
- Viorel Nitica: *Stable transitivity of Heisenberg group extensions of hyperbolic systems*, The 47th Spring Topology and Dynamics Conference, Central Connecticut State University, New Britain, CT, March, 2013
- Viorel Nitica: *Stable transitivity of Heisenberg group extensions of hyperbolic systems*, Non-positive curvature, isometric actions, and dynamics of cocycles, Santiago, Chile, May 2013
- Viorel Nitica: *The structure of max-plus hemispaces*, International Linear Algebra Society 2013 Meeting, Providence, RI, June 2013
- Vincentiu Rădulescu: University of Catania (January 2013);
- Vincentiu Rădulescu: Workshop "Meeting on Mathematics", University of Reggio Calabria (January 2013);
- Vincentiu Rădulescu: Université de Besançon (March 2013);
- Vincentiu Rădulescu: Université de Poitiers (April 2013);
- Vincentiu Rădulescu: Workshop et École de Recherche CIMPA *EDP Non Linéaires et Applications: Étude Théorique et Numérique*, Université de Tanger, Maroc, 5-17 Mai 2013;

- Vincențiu Rădulescu: Mini-courses in Nonlinear Partial Differential Equations, Women in Mathematics, Mathematics of Planet Earth, Summer School ICTP Trieste, May 27 – June 1, 2013;
- Vincențiu Rădulescu: King Abdulaziz University, Jeddah, Saudi Arabia (September 2013);
- Vincențiu Rădulescu: Seminars on Nonlinear Analysis, Reggio Calabria (October 2013);
- Vincențiu Rădulescu: International School on Computational Commutative Algebra and Algebraic Geometry (October 21-26, 2013)
- Vincențiu Pașol: *On Higher Moments for Quadratic Dirichlet L-Functions*, Combinatorics, Multiple Dirichlet Series and Analytic Number Theory, ICERM, Brown University, April 15-19, 2013
- Vincențiu Pașol: *Higher moments for quadratic Dirichlet L-functions* Workshop for young researchers in mathematics, May 9 - 10, 2013, Constanta
- Vincențiu Pașol: *Higher moments for quadratic Dirichlet L-functions II* Workshop on Algebraic and Analytic Number Theory and Their Applications, Constanta, 23-24 mai 2013
- Toma Albu: *The Osofsky-Smith Theorem for modular lattices with applications to Grothendieck categories and torsion theories*, Workshop “A New Approach in Theoretical and Applied Methods in Algebra and Analysis”, Universitatea Ovidius, Constanța, aprilie 2013.
- Toma Albu: *Variations on the Hopkins-Levitzki Theorem theme*, “Rings, Categories and Hopf Algebras”, a workshop dedicated to the 70th birthday of Constantin Năstăsescu, Universitatea București, mai 2013
- Toma Albu: *Relativization, absolutization, and latticization in Module Theory*, “The International Workshop on Matrix Theory and Ring Theory”, Southeast University, Nanjing (China), iulie 2013
- Toma Albu: *The Hopkins-Levitzki Theorem: old and new (I)*, “Mini-workshop on Ring and Module Theory”, Nanjing University, Nanjing (China), iulie 2013
- Toma Albu: *The Hopkins-Levitzki Theorem: old and new (II)*, “Mini-workshop on Ring and Module Theory” , Nanjing University, China, iulie 2013
- Toma Albu: *From the irrationality of sums of radicals to a standard undergraduate algebra exercise, and then, to some evocations*, The Anniversary Conference, “Faculty of Sciences - 150 years”, Universitatea București, august-septembrie 2013.
- Toma Albu: *Planul euclidian fara origine si cercul unitate sunt grupuri izomorfe*, Sesiunea internationala de Comunicari stiintifice “Matematica de Ieri si de Azi”, Editia a XVI-a, Colegiul Tehnic “Traian”, București, martie 2011.
- Toma Albu: *Universul fascinant al numerelor irrationale*, Simpozionul “Omul - Observatorul dintre Pamant si Cer”, Editia I, Colegiul Tehnic de Aeronautica “Henri Coandă”, București, aprilie 2013.
- Toma Albu: *Cateva probleme deschise si rezultate despre numerele irrationale*, Sesiunea jubilara - 45 Ani de Existenta a Filialei Râmnicu Sărat a SSMR, Colegiul National “Al. Vlahuță”, Râmnicu Sărat, Noiembrie 2013.
- Toma Albu: *Tezaur folcloric (IV): De la constructia à la Cauchy a corpului numerelor complexe la inelul resturilor modulo un polinom*, Sesiunea de Comunicari Metodico-Stiintifice a Profesorilor de Matematica din judetul Prahova, editia a XXXIX-a, Sinaia, noiembrie 2013.
- Ștefan Papadima: *To work or not to work in characteristic 0? this is the question*, IMAR Bucuresti Monthly Lectures, 20 martie 2013.
- Ștefan Papadima: *Despre matrice si alte curiozitati*, Facultatea de Matematica a Universitatii Bucuresti, 25 aprilie 2013.
- Ștefan Papadima: *Geometry of homology jump loci and topology*, Invited Address at the Joint

American Mathematical Society–Romanian Mathematical Society International Meeting, Alba Iulia, 27-30 iunie 2013.

- Sergiu Moroianu: Conference in honor of Cabiria Andreian-Cazacu, Bucharest, Feb. 2013.
- Sergiu Moroianu: Conferinta de popularizare pentru elevii de liceu “An invitation to hyperbolic geometry”, IMAR, Feb 2013.
- Sergiu Moroianu: Workshop for Young Researchers in Mathematics, Constanta, May 2013.
- Sergiu Moroianu: Bucharest Faculty of Mathematics 150 years conference, Sept 2013.
- Sergiu Moroianu: CAIM 2013, Universitatea Bucuresti, Sept. 2013.
- Sebastian Burciu: *On the Grothendieck ring structure of the quantum double of a fusion category*, Anniversary conference, “Faculty of Sciences - 150 years”, August 29 - September 1, 2013, Bucharest, Romania.
- Sebastian Burciu: *Mackey theory for group actions on fusion categories*, The XXIst International Conference on Integrable Systems and Quantum Symmetries, June 12 - 16, 2013, Prague, Czech Republic.
- Sebastian Burciu: *Kernels of representations and coideal subalgebras of Hopf algebras*, Workshop “Rings, Categories and Hopf Algebras”, for the 70th birthday of Professor Constantin Nastasescu, University of Bucharest, May 18 - 19, 2013, Bucharest, Romania.
- Ruxandra Stavre: a) Conferințe internaționale: Joint International Meeting of the AMS and the RMS, Alba Iulia, June 27-30, 2013,
G.P. Panasenko, R. Stavre, Asymptotic analysis of a fluid-thin structure interaction problem.
- Ruxandra Stavre: Third Workshop on Thin Structures, Naples, September 05-07, 2013,
I.S. Malakova-Ziablova, G.P. Panasenko, R. Stavre, Asymptotic analysis of a viscous fluid-3D thin plate interaction.
- Ruxandra Stavre: b) Conferințe naționale: Anniversary Conference, Faculty of Sciences-150 years, Bucharest, August 29-September 01, 2013,
R. Stavre, A two fluids interaction problem with jump conditions.
- Ruxandra Stavre: The 35-th Caius Iacob Conference on Fluid Mechanics and its Technical Applications, București, 14-14 noiembrie 2013,
R. Stavre, The control of the pressure for a two fluids flow in a porous medium.
- Răzvan Diaconescu: Theory of institutions, tutorial la *4th World School on Universal Logic*, Rio de Janeiro, Brazil, March/April 2013.
- Răzvan Diaconescu: Thoughts on graded consequence, prezentare la (last) *Mondrian Workshop*, Aveiro, Portugal, July 2013.
- Răzvan Diaconescu: Institution theoretic scope of logic theorems, prezentare la *4th World Congress on Universal Logic*, Rio de Janeiro, Brazil, April 2013.
- Radu Purice: *The Peierls-Onsager substitution in a gauge covariant formalism*, in cadrul Workshopului *Mathematical Challenge of Quantum Transport in Nanosystems*, organizat la St. Peterburg in perioada 13-15 Martie 2013, ca intalnire anuala a Trilateralei de Transport Cuanctic Franco-Danezo-Romana.
- Radu Purice: *Magnetic Coherent States*, conferinta invitata in cadrul celui de al 32-lea Workshop *Geometrical Methods in Physics* de la Białowieża (Polonia), din 29 Iunie - 5 Iulie 2013.
- Radu Purice: *Quantization in a magnetic field*, prelegere invitata la Centrul de Geometrie si Fizica al Institutului de Stiinte Fundamentale din Pohang (Coreea), in 18 August 2013.
- Radu Purice: *Quantization in a magnetic field*, conferinta invitata la Conferinta Aniversara de 150 de ani a Facultatii de Matematica si Informatica a Universitatii din Bucuresti, 29 August - 1 Septembrie 2013.
- Radu Popescu: 5 lectii în cadrul *Spring School of Invariant Theory*, la Pisek, Czech Republic,

15 - 19 Aprilie 2013

- Radu Popescu: *O prezentare simplă a grupului corpului cu mânăre în gen 2* la Workshop for Young Researchers in Mathematics, Constanța, România, 9-10 Mai 2013
- Radu Pantilie: ‘Conferința Aniversară. Facultatea de Științe - 150 ani’, 29 august - 1 septembrie, Facultatea de matematică, Universitatea din București.
- Paltin Ionescu: “Some special Fano manifolds”, The International Conference on Experimental and Theoretical Methods in Algebra, Geometry and Topology, Eforie Nord, 21-24 iunie 2013
- Paltin Ionescu: “Some special Fano manifolds”, The Anniversary Conference “Faculty of Sciences-150 years”, Facultatea de Matematică și Informatică, 29 aug-1 sept. 2013:
- Nicolae Bonciocat: *On the irreducibility of the sum of two relatively prime polynomials*, A new approach in theoretical and applied methods in algebra and analysis, 4-6 aprilie 2013, Constanța, Romania
- Nicolae Bonciocat: *Resultants, prime numbers and irreducible polynomials*, Workshop for Young Researchers in Mathematics (WYRM3), ediția a treia, 9-10 mai 2013, Constanța, Romania
- Nicolae Bonciocat: *Prime numbers and bicrossproducts of finite groups*, Workshop on Algebraic and Analytic Number Theory and Their Applications, 23-24 mai 2013, Constanța, Romania
- Nicolae Bonciocat: *Eisenstein-Schönemann-Dumas type irreducibility conditions that use arbitrarily many prime number*, Joint International Meeting of the AMS and the RMS, 27.06-30.06.2013, Alba Iulia, Romania
- Nicolae Bonciocat: *Prime numbers and irreducible polynomial*, Anniversary Conference; Faculty of Sciences, 150 years (Faculty of Mathematics and Computer Science) 29.08-1.09.2013, Bucharest, Romania
- Constantin Năstăsescu: *Frobenius algebras of corepresentations: gradings*: Universitatea din Almeria, Spania, iunie 2013.
- Constantin Năstăsescu: *A generalization of Mitchell’s lemma: applications*, Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society in partnership with the “Simion Stoilow” Institute of Mathematics of the Romanian Academy, Universitatea “1 Decembrie 1918” din Alba-Iulia, Alba-Iulia, 27 – 30 iunie 2013.
- Constantin Năstăsescu: *Algebre Frobenius de coreprezentări: graduări*, Conferința Aniversară “Faculty of Sciences – 150 Years”, București, 29 august – 1 septembrie 2013.
- Constantin Năstăsescu: *The exchange property with applications to graded rings and coalgebras*, Universitatea din Almeria, Spania, noiembrie 2013.
- Mircea Cimpoeș: “Stanley depth of quotient of monomial complete intersection ideals”, The 21st National School on Algebra, Bucuresti, 2-6 septembrie.
- Mihai Prunescu: “Computation and Combinatorics in recurrent n -dimensional sequences”, 12th International Conference on Discrete Mathematics: Discrete Geometry and Alexandrov surfaces, Bucuresti (September 7-11, 2013).
- Mihai Epure: “A Schreier domain type condition, its star operation extensions and a more general setting (ideal systems for monoids)” Algebraic Methods in Combinatorics, Bucuresti, 5 septembrie 2013.
- Mihai Cipu: *$D(n)$ - m -sets*, conferință invitată la Anniversary Conference Faculty of Sciences—150 years, București, August 29th–September 1st, 2013.
- Mihai Cipu: *Tools from combinatorial commutative algebra in discrete tomography*, conferință prezentată la Conference on Applied and Industrial Mathematics CAIM 2013, București, Septem-

ber 19–22, 2013.

- Mihaela Pilca: Homogeneous Clifford Structures, Section Geometry and Topology, Conferinta aniversara "Faculty of Sciences - 150 years", Facultatea de Matematica si Informatica, Universitatea Bucuresti.
- Matei Daniel: *Topology of arrangements of hypersurfaces*, Hyperplane Arrangements and Characteristic classes, RIMS, Kyoto University, Japonia.
- Matei Daniel: *Fundamental groups of algebraic varieties*, University of Tokyo, Japonia.
- Matei Daniel: *Topology of arrangements of hypersurfaces*, Universite de Luxembourg.
- Matei Daniel: *Fundamental groups of complex algebraic varieties and singularity links*, Faculty of Sciences 150 – Anniversary Conference, University of Bucharest, Romania.
- Matei Daniel: *Graphs, groups, homology*, Joint AMS-RMS Meeting, Alba-Iulia, Romania.
- Matei Daniel: *Topology of hypersurface arrangements*, Algebra, Geometry and Topology, Eforie, Romania.
- Marian Aprodu: Equations and syzygies of projective curves. Curves and their Jacobians: State of the Art Bellavista Relax Hotel, Levico Terme (Trento), 13-16 februarie 2013
- Marian Aprodu: Fibrat vectoriale in geometria varietatilor proiective. Workshop for Young Researchers in Mathematics, Constanta, 9-10 mai 2013
- Marian Aprodu: Chow forms of K3 surfaces and Ulrich bundles. International Conference "Experimental and Theoretical Methods in Algebra, Geometry and Topology", Eforie Nord, 21-24 iunie 2013
- Marian Aprodu: Chow forms of K3 surfaces and Ulrich bundles. Forschungsseminar "Algebraische Geometrie", Humboldt University Berlin, 17 iulie 2013
- Marian Aprodu: Ulrich bundles on K3 surfaces. Anniversary Conference, Faculty of Sciences - 150 Years, University of Bucharest, 1 septembrie 2013
- Marian Aprodu: Lazarsfeld-Mukai bundles and applications. Locally Free Geometry Seminar, IMAR Bucharest, September 13, 2013
- Marian Aprodu: Towards Mq. CIRM, Trento University, 3 octombrie 2013
- Marian Aprodu: Equations defining K3 surfaces, Geometry and Physics, Department of Theoretical Physics, IFIN-HH, 29 noiembrie 2013
- L. Badea, *Two-level methods for variational and quasi-variational inequalities of the second kind*, Joint International Meeting of the AMS and the Romanian Mathematical Society, Alba Iulia, Romania, June 27-30, 2013.
- L. Badea: *On the convergence of some hybrid multigrid methods for variational inequalities* - Anniversary Conference, Faculty of Sciences -150 years, Bucharest, 29 august-1 september, 2013.
- Liviu Ornea: *Recent results in locally conformally Kaehler geometry* la: Seminarul laboratorului Bogomolov de geometrie algebrica, Moscova
- Liviu Ornea: Locally free geometric seminar 13-14.09, IMAR
- Liviu Ornea: The 11-th International Workshop on Differential Geometry and its Applications - Ploiesti, 19 - 22
- L. Ignat, "Nonlocal evolution equations", MTM Workshop, Basque Center for Applied Mathematics, 18th February, Bilbao, 2013
- L. Ignat, "Dispersion for Schrodinger equations", Pde's, Dispersion, Scattering theory and Control theory, Monastir, 10-14 June 2013
- L. Ignat, "Long-time behaviour for a nonlocal convection-diffusion equation", AMS Meeting, Alba Iulia, June 27 - 30, 2013
- L. Ignat, "Nonlocal evolution equations", The second Kyushu-Euskadi Workshop on Applied

Mathematics, Fukuoka, Japon, 12 nov 2013

- Liviu Florin Dinu: Dimensional or anisentropic extensions of some constructive gasdynamic interaction hierarchies, Universitatea din Buenos Aires Argentina, 15-17 Mai 2013
- Laurențiu Leuștean: Proof mining and applications in nonlinear ergodic theory, Anniversary Conference "Faculty of Sciences - 150 years", University of Bucharest, 29.08 - 01.09.2013.
- Laurențiu Leuștean: Effective methods in geodesic spaces, Workshop on Operator Theory in Metric Spaces, Department of Mathematical Analysis, Universidad de Sevilla, 03 - 04.04.2013.
- Laurențiu Leuștean: Proof mining in nonlinear analysis, Logic Seminar, Technische Universität Darmstadt, 9.11.2012.
- Ingrid Belțiță: *Local smoothing results for the backscattering transform*, 25 ianuarie 2013, la *Inverse Problems and Applications*, 14 ianuarie–15 mai 2013, Institutul Mittag-Leffler.
- Gelu Pașa: "Saffman - Taylor instability for an Oldroyd-B fluid", International Workshop on Oil recovery and Porous Media Flows, organizata de Texas A & M University at QUATAR - DOHA, TAMQ, July 31 - August 1, 2013.
- Gelu Pașa: "Some problems in Oil Recovery and Hele-Shaw displacements", Anniversary Conference of Faculty of Sciences - 150 years, August 29 - September 1, 2013, Bucharest.
- Gelu Pașa: "A reverse Saffman-Taylor instability", The 21st Conference on Applied and Industrial Mathematics, 19-22 September 2013, Bucharest.
- Gelu Pașa: "Saffman-Taylor problem with zero surface tension", Conferinta Caius Iacob, 14-15 Noiembrie 2013, Bucuresti.
- Gabriel Bădițoiu: 'Clasificarea submersiilor Riemann cu fibre total geodezice de la spatii pseudo-hiperbolicе' in cadrul Conferinței tinerilor cercetatori in matematică de la Constanța.
- Florin Rădulescu: "Ramanujan Petersson conjectures and Von Neumann Algebras" (4 lectures) in cadrul conferinței Dygest Corfu Meeting, Corfu, Grecia, Mai 2013.
- Florin Rădulescu: "Ramanujan Conjectures and Operator Algebras" in Seminarul Algebre de Operatori, Universitatea Copenhaga, Mai 2013.
- Florin Rădulescu: "Unbounded Hochschild 2-Cohomology" in cadrul Conferinței Noncommutative Geometry and Applications, Poiana Brasov Septembrie 2013.
- Florin Rădulescu: "Random Matrices and Operator Algebras" in cadrul conferinței Disordered Systems and Random Matrix Theory, Universitatea Roma 3, Martie 14-15, 2013.
- Florin Panaite: "Some properties of Brzezinski crossed products", in cadrul Conferinței Internationale "Rings, Categories and Hopf Algebras", Bucuresti, mai 2013.
- Florin Panaite: "Pseudosymmetric braided categories", in cadrul Conferinței Aniversare "Facultatea de Stiinte-150 de ani", Bucuresti, august 2013.
- Florin Panaite: "Some properties of Brzezinski crossed products", in cadrul Seminarului de Algebra al Universitatii din Antwerp, Belgia, aprilie 2013.
- Florin Nichita: Meetingul AMS, nr. 1088, Boston College, Boston, SUA, 6 Aprilie, 2013.
- Florin Nichita: Conferinta in onoarea Prof. Constantin Nastasescu, Universitatea Bucuresti, 18 mai 2013.
- Florin Nichita: The 11-th International Workshop on Differential Geometry and its Applications, Septembrie 19-22, 2013, Ploiesti (poster).
- Ionescu-Kruse D.: *Variational derivation of the Green-Naghdi model for shallow-water waves propagation*, Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, 27-30 iunie 2013, Alba Iulia, România.
- Aida Timofte: *Generalized Dini theorems for nets of functions on arbitrary sets*, Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society 27.06.2013 - 30.06.2013, Alba Iulia, Romania.

- Alex Popa: *A simple proof of the Eichler-Selberg trace formula for congruence subgroups*, Workshop for Young Researchers in Mathematics, Constanta, May 9-10 2013
- Alex Popa: *A simple proof of the Eichler-Selberg trace formula*, Workshop on Algebraic and Analytic Number Theory and Their Applications, Constanta, May 23-24, 2013
- Alex Popa: *Trace of Hecke operators on modular forms for congruence subgroups*, Bucharest Number Theory Day, Bucharest, July 16, 2013
- Alina Cojocaru: *INTEGERS 2013: The Erdős Centennial Conference*, Octombrie 2013, University of West Georgia, USA
- Alina Cojocaru: *Workshop in Analytic Number Theory*, Octombrie 2013, Mathematisches Forschungsinstitut Oberwolfach, Germania
- Alina Cojocaru: *Mathematics conference celebrating the 150th anniversary of the University of Bucharest*, Septembrie 2013, Universitatea Bucuresti, Romania
- Alina Cojocaru: *CIMPA Research School on Algebraic Curves over Finite Fields* University of the Phillipines Dillman, Manila, Iulie 2013, Profesor invitat, mini-curs de 6 ore
- Alina Cojocaru: *Bucharest Number Theory Day*, Institutul de Matematica al Academiei Romane, Iulie 2013, Bucuresti, Romania
- Alina Cojocaru: *Conference on Analytic Number Theory in honour of Étienne Fouvry*, Iunie 2013, CIRM, Luminy, Franta
- Alina Cojocaru: *Collaborative Explorations and Developments in Arithmetic Research*, Mai 2013, University of Illinois at Chicago, Illinois, USA
- Anca Bonciocat: *Inegalități funcționale și probleme de transport cu aplicații în economie*, "Modelarea Matematică în Științele Economice", 23-23 ianuarie 2013, Bucuresti.
- Anca Căpățînă: Homogenization results for microcontact elasticity problems, Anniversary Conference, Faculty of Sciences 150 years, Bucharest Aug 29th-Sept 1st 2013
- Anca Macinic: "Orlik-Solomon algebras", Workshop for Young Researchers in Mathematics, May 09 - May 10, 2013, Constanta, Romania.
- Anca Macinic: "On the second nilpotent quotient of higher homotopy groups for hypersolvable arrangements", Joint International Meeting of the AMS and the Romanian Mathematical Society, Special Session: Topics in Geometric and Algebraic Topology, June 27 - 30, 2013, Alba Iulia.
- Anca Macinic: "Hyperplane arrangements", The 21st National School on Algebra "Algebraic Methods in Combinatorics", 2-6 September 2013, IMAR Bucharest.
- Anca Macinic: "Pencil type line arrangements of low degree and monodromy", Anniversary Conference Faculty of Sciences - 150 years, August 29-September 1 2013, Bucharest.
- Andrei Baran: "The Category of Semi-simplicial Analytic Spaces", CAIM 2013, Bucuresti 19 - 22 septembrie 2013
- Ionel Popescu: Stochastic Seminar, Georgia Tech, Sept. 5th, 2013
- Ionel Popescu: Geometry Seminar, IMAR, May 20th, 27th and June 3rd, 2013
- Ionel Popescu: Stochastic Seminar, Bonn University, June 9th, 2013
- Barbu Berceanu: *The Artin braid monoid and new alphabets*, 6th World Conference on 21st Century Mathematics, GCU Abdus Salam School of Mathematical Sciences, Lahore, martie 2013;
- Barbu Berceanu: "A bimodule structure on the Kriz model of a projective manifold", Anniversary Conference of Faculty of Sciences - 150 years, Univ. București, august 2013;
- Barbu Berceanu: *Bridging the fundamental group*, 12th International Conference on Discrete Mathematics, Universitatea București, septembrie 2013.
- Cezar Joița: *On the parametrization of germs of two-dimensional singularities*, Seminarul

Singularités et Applications Université Lille 1, 10 septembrie 2013.

- Cezar Joița: *On the parametrization of germs of two-dimensional singularities*, Anniversary Conference Faculty of Sciences - 150 years, August 29 - Septembrie 1, 2013, București.
- Cezar Joița: *Spații Stein și imersii deschise în spații Stein*, Conferința Lunară a Facultății de Matematică și Informatică, București, 28 Februarie 2013.
- Costin Vâlcu: *Baire categories for Alexandrov surfaces*, *International Conference. Experimental and Theoretical Methods in Algebra, Geometry and Topology*, Eforie Nord, 21-24 iunie 2013
- Costin Vâlcu: *Two results concerning cut loci on surfaces*, *Anniversary Conference Faculty of Sciences - 150 years*, București, 29 august - 1 septembrie 2013
- Costin Vâlcu: *Simple closed geodesics on Alexandrov surfaces*, *12th International Conference on Discrete Mathematics: Discrete Geometry and Alexandrov surfaces*, București, 7-11 septembrie 2013
- Cristian Anghel: "Geometry of the Sasakura bundle" in cadrul "The locally free geometry seminars"- Bucuresti sept 2013.
- Cristian Cazacu: "The influence of the Hardy-type inequalities to some singular PDEs", Institute of Mathematics of the Academy of Sciences of the Czech Republic, Praga, Republica Ceha, 1 Octombrie, 2013.
- Cristian Cazacu: "Qualitative aspects of Hardy type inequalities", Special Session III-Calculus of Variations and Partial Differential Equations, Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, Alba Iulia, Romania, 27-30 Iunie, 2013.
- Cristian Cazacu: "On the first eigenvalue of a degenerate Sturm-Liouville problem", Workshop for Young Researchers in Mathematics, University of Constanta, Romania, 9 Mai, 2013.
- Cristian Cazacu: "On Hardy inequalities", Department of Mathematics, University of Sussex, Brighton, Anglia, 28 Februarie, 2013.
- Cristian Cazacu: "Controllability of the heat equation with an inverse-square potential localized on the boundary", Workshop MTM2011-29306 Project, Bilbao, Spania, 18 Februarie, 2013.
- C Cobeli: *Discrete features of circles and encircling*, Joint International Meeting of the AMS and the Romanian Mathematical Society, June 27 - 30, 2013, Alba Iulia, Romania.
- Cristian Cobeli *Zig zag printre cercuri și perpendiculare*, A XVII-a Conferință Anuală SSMR 18-20 Octombrie 2013, Botoșani, România – dedicată aniversării a 140 ani de la nașterea lui Dimitrie Pompeiu (1873–1954).
- C. Făciu, *Shock-induced phase transitions in thermoelastic bars. Riemann problems and applications*, International Union of Theoretical and Applied Mechanics - IUTAM Symposium on "Materials and interfaces under high strain-rate and large deformation" iunie, 17-21, 2013, Metz, Franța.
- C. Făciu, *A viscoplastic model with negativ strain-rate sensitivity for the the Portevin - Le Chatelier effect and relaxation-oscillations for dynamical systems*, Conferința aniversară "Faculty of Sciences -150 years", Bucuresti, 29 august - 1 septembrie, 2013.
- C. Făciu, *A way to solve Goursat and Riemann problems for phase transforming thermoelastic bars. Temperature effects in impact problems*, The Romanian Society of Applied and Industrial Mathematics - CAIM 2013, București, septembrie, 19 - 23, 2013.
- D. Polišeovski: "Fluid flows through fractured porous media", Conferinta aniversara "Faculty of Sciences - 150 years", 29.08-1.09.2013 Facultatea de Matematica si Informatica a Universitatii Bucuresti

- Dan Tiba: Implicit Representations of Domains and Applications, Weierstrass Institute, Berlin, 29.10.2013; University of Jyväskylä, 6.11.2013.
- Dan Timotin: Matrices and Operators, 27–30 decembrie 2012, Bangalore (India), comunicare.
- Dan Timotin: Recent advances in Operator Theory and Operator Algebras, 31 decembrie 2012–11 ianuarie 2013, Bangalore (India).
- Dan Timotin: Conferința omagială Sz.-Nagy, 24-28 iunie 2013, Szeged (Ungaria).
- Dan Timotin: Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society , Alba Iulia, 27–30 iunie 2013, invited address.
- Dan Timotin: Workshop on Invariant Subspaces of the Shift Operator, Montreal, 26–30 august 2013, minicurs și comunicare.
- Dorin Popescu: Recent results on Stanley’s Conjecture, Univ. Ovidius aprilie 2013.
- Dorin Popescu: Recent results on Stanley’s Conjecture, Fac. Matematica Univ. Bucuresti mai 2013
- Dorin Popescu: A hope for Stanley Conjecture, Conferinta din Eforie Nord, iunie 2013.
- Dorin Popescu: Around Stanley’s Conjecture on monomial ideals, Conferinta aniversara de 150 ani de la Fac. de Matematica, Univ. Bucuresti
- Eugen Mihailescu: Conferinta Cabiria Andreian Cazacu la 85 ani, Univ. Bucuresti, 22 Febr. 2013.
- Eugen Mihailescu: Workshop for Young Researchers in Mathematics, Ovidius University, Constanta, Romania, May 8-May 10, 2013.
- Florin Boca: *Continued Fractions, Farey Fractions, and Ergodic Theory*, Anniversary Conference Faculty of Sciences – 150 years, Universitatea București, August 30, 2013.
- Florin Boca: *Operator Algebras and Continued Fractions*, Noncommutative Geometry and Applications, Poiana Brașov, September 1-8, 2013.
- Alina Cojocaru: Ianuarie 2013, Universität Humboldt, Berlin, Germania
- C. Cazacu, *Controllability of the heat equation with a Hardy potential arising at the boundary*, 8th Workshop on Control of Distributed Parameter Systems 1-5 July 2013, Craiova, Romania-poster.
- Adrian Constantinescu: *Hilbert-Mumford-Nagata Theorem on invariants and some topological aspects of the finite generation of subalgebras.I*, 21-th International Conference on Applied and Industrial Mathematics (CAIM 2013) - Algebra, Logic and Geometry (with applications), University of Bucharest, September 19-22, 2013.
- Adrian Constantinescu: *Hilbert-Mumford-Nagata Theorem on invariants and some topological aspects of the finite generation of subalgebras.II*, 9-th International Conference on Applied Mathematics (ICAM9) - Advances in Algebra, Technical University of Cluj-Napoca / North University Center at Baia Mare, Baia Mare, September 25-28, 2013.
- Adrian Constantinescu(in colaborare cu C. Udriste si S. Pricopie): *Genom of Descartes Folium*, The 6-th International Conference of Differential Geometry and Dynamical Systems (DGDS-2013), University “Politehnica” of Bucharest, October, 10-13, 2013.

12 Cooperări

12.1 Cooperări naționale

- Proiectul PN-II-ID-100-PCCE-6/2010 *Modelarea continuă - de la micro la macro scară - a materialelor avansate in fabricația virtuală*

Parteneri:

- Universitatea Tehnica din Cluj Napoca.
- Universitatea din Bucuresti

- Proiectul PN-II-ID-100-PCCE-8/2010, *Differentiated systems in nonlinear analysis and applications*

Parteneri:

- Universitatea din Craiova
- Universitatea Babes Bolyai din Cluj-Napoca

- Proiectul POSDRU/89/1.5/S/62988 *Cercetarea stiintifica economica, suport al bunastarii si dezvoltarii umane in context european*

Parteneri:

- Institutul National de Cercetari Economice "Costin C Kiritescu"
- Institutul de Prognostica Economica
- Universitatea Bucuresti, Facultatea de Administratie si Afaceri
- Universitatea Politehnica Bucuresti, Facultatea de Inginerie Mecanica si Mecatronica
- Institutul de Economie Nationala

- Proiectul POSDRU/107/1.5/S/82514, *Doctoratul in stiinte fundamentale - inceputul unei cariere de varf in cercetare*

Parteneri:

- Institutul National de Cercetari Economice "Costin C. Kiritescu" al Academiei Romane
- Universitatea "Stefan cel Mare" din Suceava
- Universitatea din Bucuresti
- Institutul de Biochimie al Academiei Romane
- Universitatea Politehnica din Bucuresti
- MENON Network EEIG, Belgia
- SC HiFi Production Group SRL

12.2 Cooperări internaționale

- Proiectul FP7 Marie Curie, PIRSES-GA-2012-318986 GeTFun

Parteneri:

- Instituto de Telecomunicacoes, Portugalia
- Institute of Computer Science of the Polish Academy of Sciences, Polonia
- Tel-Aviv University, Israel
- Technische Universitaet Wien, Austria
- Academic College of Tel-Aviv-Yafo, Israel
- Universidade de Aveiro, Portugal
- Universita degli Studi di Verona, Italy
- Fundacao Getulio Vargas, Brazil
- Kryvyi Rih National University, Ukraine
- Pontificia Universidade Catolica do Rio de Janeiro, Brazil
- Universidade Federal do Rio de Janeiro, Brazil
- Universidade Federal do Rio Grande do Norte, Brazil
- Universidade Estadual de Campinas, Brazil

- Colaborare între American Mathematical Society, Romanian Mathematical Society și IMAR pentru organizarea Joint Meeting AMS- RMS
- Proiectul *Surfaces minimales intrinseques* - în cadrul LEA
Partener: Université de Versailles
- Proiectul *Methodes de Decomposition de Domaine pour les Problemes de Contact avec Frottement* - în cadrul LEA
Partener: Laboratoire de Mécanique et d'Acoustique, Université Aix-Marseille.
- Proiectul *Evaluation de fonctions de matrices et algorithmes parareels* - în cadrul LEA
Parteneri:
- Université de Poitiers
- Université d'Amiens.
- Proiectul *Etude des formes et des courants positifs fermes sur les surfaces de la classe VII* - în cadrul LEA
Partener: Université de Nancy.
- Proiectul *Methodes effectives dans l'étude des polynomes et des equations diophantiennes* - în cadrul LEA
Partener: Université de Strasbourg.
- Proiectul *Bifurcation sets and holomorphic arcs* - în cadrul LEA
Partener: Université Lille 1.
- Proiectul *Locally conformally Kaehler manifolds with large symmetry group* - în cadrul LEA
Partener: Université de Versailles.

13 Proiecte depuse

- Alex Constantinescu: *Hilbert Functions of Matroids, Zonotopes and Subspace Arrangements* - depus la Swiss National Science Foundation.
- Alex Constantinescu: *Meeting of Combinatorial Commutative Algebra* - propunere de conferință, depusă la Fondazione Bruno Kessler, Trento.
- Ovidiu Pasareanu: A depus un proiect la AEIF.
- Vincentiu Rădulescu: Co-director (cu Martin Guest, Waseda University și Dusan Repovš, Univ. Ljubljana) al unui proiect de cercetare Japonia-Slovenia depus la Japan Society for Promotion of Science și Slovenia Research Agency.
- Rareș Rădeaonu: Proiect de cercetare "Enumerative invariants in real algebraic geometry". depus la National Science Foundation, SUA.
- Mihai Cipu: Proiectul *Méthodes effectives dans l'étude des polynômes et des équations diophantiennes* a fost acceptat pentru finanțare în cadrul LEA (Laboratoire Européen Associé CNRS Franco-Roumain).
- Anca Căpățînă: "Mathematical MoDELing in COntact MeChanics (MADELOC)" - proiect

colaborare ANR-Franța și MEN-România; Responsabili: M. Sofonea și D. Tiba

- Eugen Mihăilescu: Proiect de cercetare de lunga durata, in Sisteme Dinamice si Teorie Ergodica Diferentiabila, la Institut des Hautes Études Scientifiques (IHÉS), Paris, Franta, care a fost selectat de catre Consiliul Stiintific al IHÉS.
- Liviu Ignat: Stancalie Viorica, Space-based femtosecond laser filamentation - a theoretical approach, Romanian Space Agency, responsabil nod IMAR, Competitia C2 - 2013
- Liviu Păunescu: Proiect de cooperare bilaterala Romania-Austria, impreuna cu Goulmara Arzhantseva de la Universitatea din Viena.
- Nicolae Bonciocat: “*Méthodes effectives dans l’étude des polynômes et des équations diophantiennes*”, *LEA-Math Mode 2013* - acceptat pentru finanțare.
- P.Stanica: *Indo-US Center on the Mathematics for Cyber Security with Minimized Security Overheads*.

Alte activități ale membrilor IMAR

- Ruxandra Stavre: cercetător invitat la Institut Camille Jordan, UMR 5208, Franța, 11 martie - 10 aprilie 2013
- Stefan Papadima: Visiting Scholar University of Sydney, Decembrie 2012–Ianuarie 2013
- Ionescu-Kruse D.: cercetator invitat 05/2013-07/2013: Facultatea de Matematică, University of Vienna.
- Florin Nichita: a obținut Certificate of Editorial Achievement, 2012, Axioms, MDPI.
- Ionescu-Kruse D.: Membru in echipe de cercetare a proiectului European ERC Advanced Grant project no. 267116/(2011-2016), ”Nonlinear studies of water flows with vorticity” (NWFV), Director de proiect: Prof. Dr. A. Constantin, University of Vienna.
- Vincentiu Radulescu: invitat de Scoala Doctorală a *Université de Picardie “Jules Verne”* (Amiens) și a *Université de Reims* pentru a organiza un *Atelier d’Écriture Scientifique* pentru studenții doctoranzi.
- Mihai Cîpu: Membru în Consiliul Director al Societății de Științe Matematice din România.
- Mihai Cîpu: Membru în Comitetul de organizare a Olimpiadei naționale de matematică.
- Mihai Cîpu: Coordonator la concursul internațional pentru elevi *Romanian Master of Mathematics*.