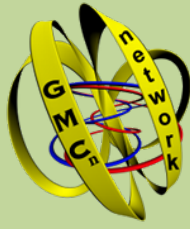


# GMC Network Infosheet

November 2016



## Geometry, Mechanics and Control Network Infosheet

November 2016

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## Network's activities

**11th Young Researchers workshop on Geometry, Mechanics and Control.**

12–14 January 2017, Tenerife, Islas Canarias, Spain.

Courses:

Nicola Sansonetto (University of Verona, Italy): *Integrability and Nonholonomic Systems with Symmetry*

Marco Caponigro (CNAM, Conservatoire National des Arts et Métiers, Paris, France): *Stabilization and optimal control in multiagent dynamics*

Alejandro Cabrera (UFRJ, Rio de Janeiro, Brasil): *Introduction to supergeometry*

<http://gmcnet.webs.ull.es/?q=activity-detail/1762>

**5th Iberoamerican conference on Geometry, Mechanics and Control.**

16–20 January 2017, Tenerife, Islas Canarias, Spain.

<http://5ibamgmc.webs.ull.es/>

**Special Session of the Biennial of the Royal Mathematical Society.**

31 January 2017, Zaragoza, Spain.

<http://eventos.rsme.es/4762/detail/congreso-bienal-de-la-real-sociedad-matematica-espanola.html>

## Job offers, fellowships and awards

### Ph.D. offers

**PhD stipends in Mathematics.**

Positions offered in different research areas, such as non-commutative geometry, mathematical physics or stochastic dynamical systems.

Department of Mathematics, University of Copenhagen (Denmark).

**Closing date: 11 December 2016.**

<http://www.all-acad.com/Job/C1855256>

### **PhD studentship at the London School of Geometry and Number Theory.**

Joint program with the Imperial College, Kings College and University College London.

London School of Geometry and Number Theory (United Kingdom).

**Closing date: 15 December 2016.**

<http://www.jobs.ac.uk/job/AVJ550>

### **PhD studentship - Information geometry of controlled quantum open systems.**

This PhD project aims to further expand our understanding of open dynamics by exploiting new insights from complementary areas such as non-equilibrium statistical mechanics, quantum control, quantum information and quantum metrology.

University of Nottingham (United Kingdom).

**Closing date: 9 January 2017.**

<http://www.all-acad.com/Job/J0221543>

### **PhD studentship - Bifurcations in symmetric Hamiltonian systems.**

In this project a general theory for bifurcations of relative equilibria and relative periodic orbits will be developed for Hamiltonian systems with symmetry. The project involves knowledge in Lagrangian and Hamiltonian systems, dynamical systems, Lie group theory and basic differential geometry.

University of Surrey (United Kingdom).

**Closing date: 10 January 2017.**

<http://www.jobs.ac.uk/job/AUT233/>

### **EPSRC DTP PhD studentship: Anabelian geometry of curves over finite fields.**

The project is within the research area of anabelian geometry, a newly developed theory which has recently grown very successful by achieving very impressive results in Number theory and arithmetic geometry. The applicant will investigate new techniques and applications of the theory.

University of Exeter (United Kingdom).

**Closing date: 11 January 2017.**

<http://www.jobs.ac.uk/job/AVE343>

### **PhD Studentship in Mathematics.**

Candidates with interests in algebraic geometry or mathematics education are particularly encouraged to apply, but applications in any of the other research areas represented within the Department of Mathematics will also receive serious consideration.

University College Cork (United Kingdom).

**Closing date: 26 January 2017.**

<http://www.jobs.ac.uk/job/AVS324>

### **Doctoral fellowships - Programme INPhINIT "La Caixa".**

Ph.D. grants in several fields, including physics and mathematics, in areas such as Algebraic geometry, Dynamical systems, or Symplectic geometry.

Positions are offered in several Spanish research centres, such as ICMAT, BGSMath and the Basque Center for Applied Mathematics.

**Closing date: 2 February 2017.**

<https://obrasociallacaixa.org/en/educacion-becas/becas-de-posgrado/inphinit/programme-description>

### **PhD position in Numerical Methods.**

4-year position in the project 'Numerical methods in the representation of curves and surfaces, positive matrices and applications', supervised by professor Juan Manuel Peña Ferrández. Details of the position are established by the Spanish Ministry of Economy and Competitivity (see B.O.E. 8/11/2016, in Spanish).

Departamento de Matemática Aplicada, Universidad de Zaragoza (Zaragoza, Spain).

**Closing date: Open until filled.**

[jmpena@unizar.es](mailto:jmpena@unizar.es)

## **Postdoctoral fellowships**

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### **Postdoctoral fellowship positions 2016 from the European P-SPHERE project.**

3 year postdoctoral fellowship on Geometrical Analysis and Partial Differential Equations.

BGSMath - Barcelona Graduate School of Mathematics (Spain).

**Closing date: 9 December 2016.**

<http://bgsmath.cat/psphere-2016/>

### **Postdoctoral fellowship positions 2016 from the European P-SPHERE project.**

3-year postdoctoral fellowship on "Geometrical Analysis and Partial Differential Equations- Ref: MA01", hosted by the Group of Harmonic and Complex Analysis.

UAB - Universidad Aut3noma de Barcelona (Spain).

**Closing date: 13 December 2016.**

<http://www.uab.cat/web/research/p-sphere/by-research-topics-/mathematical-analysis-1345709818688.html>

### **Postdoctoral researcher ERC GEOFLUIDS.**

The candidate will join the team funded by the ERC Starting Grant project Geometric problems in PDEs with applications to fluid mechanics. ICMAT - Instituto de Ciencias Matemáticas (Madrid, Spain).

**Closing date: 15 December 2016.**

<https://www.icmat.es/job-opportunities/postdoc/geofluids>

### **POLONEZ 3 postdoctoral fellowships.**

Funding programme addressed to incoming researchers who may apply for 12- or 24-month fellowships in host institutions in Poland.

National Science Centre (Poland).

**Closing date: 15 December 2016.**

<http://www.ncn.gov.pl/polonez?language=en>

### **Postdoctoral Research Assistant in Geometry and Analysis.**

Research projects related, for example, to special holonomy, or calibrated submanifolds, or Lagrangian Mean Curvature Flow in Calabi-Yau manifolds, or to certain foundational questions about differential-geometric moduli spaces.

University of Oxford (United Kingdom).

**Closing date: 15 December 2016.**

<http://www.jobs.ac.uk/job/AVK845>

### **Position in Burgos.**

One-year position on any of the research areas of the Mathematical Physics Group, lead by Prof. Ángel Ballesteros.

University of Burgos (Spain).

**Closing date: December 2016.**

<https://mathematicalphysicsubu.com/>

### **Two postdoctoral positions at BGSMath.**

One 2-year position in each of the following area groups:

- Algebra, Combinatorics, Geometry and Logic.
- Analysis, Dynamical Systems, Probability Theory.

Barcelona Graduate School of Mathematics (Spain).

**Closing date: 8 January 2017.**

<http://bgsmath.cat/bgsmath-postdoctoral-ca11-2017-2019>

### **Postdoctoral fellowship grants.**

The scientific areas for the year's two programs are: Fractal Geometry and Dynamics, and Tropical Geometry, Amoebas and Polytopes.

Institut Mittag-Leffler (Sweden).

**Closing date: 8 January 2017.**

<http://www.mittag-leffler.se/research-programs/postdoctoral-fellowship-grants>

### **Two-year postdoctoral positions in Mathematics.**

The research areas include algebraic geometry, dynamical systems, mathematical physics and control theory.

Queen's University (Canada).

**Closing date: 16 January 2017.**

<http://www.mast.queensu.ca/positions>

### **Juan de la Cierva (formation).**

2-year position for new researchers in a Spanish research center.

Spain.

**Closing date: 26 January/2 February 2017.**

<http://www.idi.mineco.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnnextoid=63b7c44759da7510VgnVCM1000001d04140aRCRD>

### **Juan de la Cierva (incorporation).**

2-year position for researchers with 2-4 years of experience in a Spanish research center.

Spain.

**Closing date: 25 January/31 January 2017.**

<http://www.idi.mineco.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnnextoid=8caea9bf9ada7510VgnVCM1000001d04140aRCRD>

### **ETH Zurich Postdoctoral Fellowships.**

Junior Postdoctoral Researchers.

ETH Zurich (Switzerland).

**Closing date: 1 March 2017.**

<https://www.ethz.ch/en/research/research-promotion/eth-internal-programmes/eth-fellowships.html>

### **Humboldt Research Fellowship for Postdoctoral Researchers.**

6-24 month research programs.

Alexander von Humboldt Foundation.

**Closing date: Open.**

<https://www.humboldt-foundation.de/web/humboldt-fellowship-postdoc.html>

### **Lisa Meitner Program.**

FWF Austrian Science Fund.

Vienna (Austria).

**Closing date: Open.**

<https://www.fwf.ac.at/en/research-funding/application/>

**Funded postdoctoral fellowship.**

## Offers for researchers

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### **Tenure Track Assistant Professor - Optimization and Control.**

Département Mathématiques et Systèmes.  
MINES ParisTech (France).

**Closing date: 3 December 2016.**

[https://www.researchgate.net/job/879384\\_Tenure\\_Track\\_Assistant\\_Professor-Optimization\\_and\\_Control](https://www.researchgate.net/job/879384_Tenure_Track_Assistant_Professor-Optimization_and_Control)

### **Research Associate in Mathematics.**

36-month position, part of the Simons Foundation Collaboration on Special Holonomy in Geometry, Analysis and Physics, an international collaboration focused on the study of Riemannian manifolds with special holonomy.  
Imperial College London (United Kingdom).

**Closing date: 8 December 2016.**

<http://www.jobs.ac.uk/job/AVK336>

### **Assistant Professor in Control Systems.**

Department of Applied Mathematics and Statistics.

University of California Santa Cruz (California, United States).

**Closing date: 9 December 2016 or until filled.**

<https://www.mathjobs.org/jobs/jobs/9390>

### **Research Associate.**

36-month research appointment entitled "Challenges of Dispersionless Integrability: Hirota Type Equations".

School of Science, Loughborough University (United Kingdom).

**Closing date: 14 December 2016.**

<http://www.jobs.ac.uk/job/AVL395>

### **Faculty positions in Mathematics at ICTS-TIFR, Bangalore.**

International Centre for Theoretical Sciences.  
Bangalore (India).

**Closing date: 1 January 2017.**

<https://www.mathjobs.org/jobs/jobs/8896>

### **Ramón y Cajal contracts.**

Research contracts in Spanish centers with future possibility of a steady contract.

Department of Mathematics and Statistics.

University of Reading.

**Closing date: Open.**

<https://www.reading.ac.uk/maths-and-stats/JobsAndFellowships/maths-fellowships.aspx>

Spain.

**Closing date: 24 January 2017.**

<http://www.idi.mineco.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnnextoid=5996c7f1cc057510VgnVCM1000001d04140aRCRD>

### **Tenure track Assistant Professor in pure Mathematics.**

Department of Mathematics.

University of Rochester (New York, United States).

**Closing date: Open until filled.**

<http://www.all-acad.com/Job/J0218389>

### **Two positions in Mathematics.**

One assistant professor and one full professor at Facultad de Ciencias Exactas y Naturales y Agrimensura.

Universidad Nacional del Nordeste (Argentina).

**Closing date: Open until filled.**

[lucini@exa.unne.edu.ar](mailto:lucini@exa.unne.edu.ar)

### **Faculty positions in Mathematics.**

Area of Mathematics.

Universidad Nacional de Tierra del Fuego (Argentina).

**Closing date: Open until filled.**

[fdobarro@untdf.edu.ar](mailto:fdobarro@untdf.edu.ar)

### **Assistant Professor.**

Department of Mathematical Sciences.

Binghamton University (New York, United States).

**Closing date: Open until filled.**

<https://www.mathjobs.org/jobs/jobs/9300>

### **Tenure Track - Frontiers of Geometry.**

Areas of interest include, but are not restricted to: algebraic geometry (especially derived algebraic geometry), arithmetic geometry, modern homotopy theory, topological field theory.

University of Massachusetts Amherst (Massachusetts, United States).

**Closing date: Open until filled.**

<http://www.all-acad.com/Job/C1810923>

## Offers for visiting researchers

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### Visiting professor in the USA, Canada and the UK.

Secretaría de Estado de Educación, Formación Profesional y Universidades, Spain.

Visiting professors in the US, Canada and the UK for the scholar year 2017-2018.

**Closing date: 13 December 2016.**

[http://www.boe.es/diario\\_boe/txt.php?id=BOE-B-2016-59743](http://www.boe.es/diario_boe/txt.php?id=BOE-B-2016-59743)

### Invitation Fulbright speakers.

Fulbright Commission.

Invitation to fulbright speakers for a period of 2-6 weeks for research and seminars in Spain.

**Closing date: June 2017.**

<http://www.fulbright.es/convocatorias/ver/1512/ayudas-para-que-instituciones-espanolas-inviten-a-conferenciantes-fulbright-para-un-periodo-maximo-de-dos-semanas/2016-2017>

### Visiting research fellow in Oxford.

Mathematical Institute-University of Oxford.

Visiting researchers at the University of Oxford.

**Closing date: Open.**

<https://www.maths.ox.ac.uk/members/visitors/visiting-research-fellows>

### Visiting research fellow in Kent State University.

Mathematics Department-KSU Ohio.

Visiting researchers at KSU.

**Closing date: Open.**

<http://www.kent.edu/globaleducation/visiting-scholars>

### Visiting researchers at AIMS.

African Institute for Mathematical Sciences.

Interested researchers may apply to visit for short (2-week) or longer periods. Research fellows may conduct their own research at AIMS, participate in the teaching programmes and give talks in the journal club. Visits to local universities can be arranged.

**Closing date: Open.**

<https://www.aims.ac.za/en/research-centre/fellowships>

### Cheryl E. Praeger Visiting Research Fellowship.

University of Western Australia.

Recipients of the fellowship are expected to participate in education, e.g. via lectures, and to participate in collaborative research with members of the School of Mathematics and Statistics

and the Centre for the Mathematics of Symmetry and Computation (CMSC) during a visit of at least two weeks.

**Closing date: Annually open.**

<http://www.maths.uwa.edu.au/research/Visiting-Research-Fellowship>

### Aarhus Universitets.

Aarhus University Research Foundation.

Research in Denmark.

For visiting researchers collaborating with the Aarhus University **Closing date: Open calls.**

<http://auff.au.dk/en/grants/application/>

### Research in pairs in the Mathematisches Forschungsinstitut Oberwolfach.

Mathematisches Forschungsinstitut Oberwolfach. Oberwolfach, Germany.

2-4 people on research stay between 2 weeks and 3 months. Required: not all participants coming from the same place. The Institute will provide office space, full board and lodging. Travel expenses can be reimbursed only in exceptional cases. **Closing date: Applications must be sent 6 months before planned stay.**

<http://www.mfo.de/for-guest-researchers/apply-for-a-stay/apply-for-research-in-pairs>

### Focused research groups.

Banff International Research Station.

Banff, Alberta, Canada.

Up to 8 researchers from different institutions to live and work at the BIRS facility for periods of 1 to 2 weeks.

Room and meals are provided for resident members. Two dedicated discussion rooms with computer work stations are provided for the use of the group. Proposals: Should detail the area of collaboration, list the team members and their institutions, and justify the case for using BIRS.

**Closing date: No precise deadline: a minimum of 4 months before the proposed start of the event.**

<http://www.birs.ca/programs/general-program-descriptions>

### Research in Teams.

Banff International Research Station.

Banff, Alberta, Canada.

The Research in Teams program offers teams of 2 to 4 researchers the opportunity to live and work at the BIRS facility for periods of 1 to 2 weeks, in order to concentrate on their research or to finish

major projects. **Closing date: No precise deadline: a minimum of 4 months before the proposed start of the event.**

<http://www.birs.ca/programs/general-program-descriptions>

### **Centre International de rencontres mathématiques (CIRM).**

CIRM, Marseille.  
Marseille, France.

Research in pairs (2 to 3 researchers for 2 to 3 weeks. CIRM subsidizes board and lodging for people not based in the region). **Closing date: Open all year.**

<http://www.cirm-math.com/rip-applicants.html>

### **Call for Visiting Professors at CIRM.**

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

CIRM Visiting Scholars will perform mathematical research in cooperation with researchers of the Trento area. CIRM Visiting Professors will hold short Ph.D. courses, or series of seminars.

**Closing date: Applications three months before planned stay.**

<http://cirm.fbk.eu/cirm-visiting-professors>

### **Visiting the ICMAT.**

ICMAT.

Madrid, Spain.

Host for researchers for a period 1 to 12 months, preferably having a research plan and a scientific connection with ICMAT researchers. Visitors will be provided with office space and working facilities and house-finding assistance if necessary. No financial support will be provided for these visits. Resolution no later than one month after submission.

**Closing date: 2 months before the start of the desired stay.**

<http://www.icmat.es/people/visitFac>

### **Research in Pairs Program: Centro Internazionale per la Ricerca Matematica.**

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

2-3 people from Universities located in different towns, who intend to work on a definite research

project from 1 to 6 weeks). Applicant partners must submit a scientific project in the field of mathematics resulting in one or more scientific publications on journals of excellent mathematical level; Participants in the RIP Program will also give occasional research seminar talks at the CIRM or at the University of Trento. Applications where one or more of the partners are Italians will of course be welcome.

**Closing date: Applications may be sent any time.**

<http://cirm.fbk.eu/research-pairs>

### **Visiting the CRM.**

Centre de Recerca Matemàtica.

Catalonia, Spain.

Host for researchers from at least months, having a research plan and a scientific connection with long-term CRM visitors or researchers based at a university in Catalonia. Researchers from Catalan universities can apply if they are free from teaching duties during the period of their stay at the CRM. Visitors will be provided with working facilities and house-finding assistance. Support for housing expenses can be requested. Visits should be carried out during the academic year (from September to July). Resolutions no later than three months after submission

**Closing date: Applications can be submitted any time between 6 and 12 months before the start of the desired stay.**

<http://www.crm.cat/en/Host/VisitingCRM/Pages/ResearchPairs.aspx>

### **Visiting the IMUS.**

IMUS.

University of Sevilla, Spain.

Hosting researchers from 1 to 12 months. Priority to researchers having a research plan to be developed in collaboration with IMUS members. Visitors will be provided with facilities at the Institute and house-finding assistance. No financial support will be provided. Resolutions within one month after the submission.

**Closing date: Applications can be submitted any time, from 2 months to 1 year in advance.**

<http://www.imus.us.es/es/contenido/intercall>

## **Awards**

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### **George Plya Prize for Mathematical Exposition.**

The George Plya Prize for Mathematical Exposition is awarded every two years to an out-

standing expositor of the mathematical sciences. The prize may be awarded for a specific work or for the cumulative impact of multiple expository works that communicate mathematics effectively.

The work may range from popular accounts of mathematics and mathematical discovery to pedagogy to systematic organization of mathematical knowledge. **Closing date: 1 December 2016.**  
[http://www.siam.org/prizes/nominations/nom\\_polyaexp.php](http://www.siam.org/prizes/nominations/nom_polyaexp.php)

#### **Fields Medal 2018.**

Fields Medal award **Closing date: 31 December 2016.**  
<http://www.mathunion.org/general/prizes/nomination-guidelines/>

#### **Rolf Nevanlinna award.**

The Rolf Nevanlinna Prize is awarded once every 4 years at the International Congress of Mathematicians, for outstanding contributions in Mathematical Aspects of Information Sciences including:

All mathematical aspects of computer science, including complexity theory, logic of programming languages, analysis of algorithms, cryptography, computer vision, pattern recognition, information processing and modelling of intelligence. Scientific computing and numerical analysis. Computational aspects of optimization and control theory. Computer algebra. **Closing date: 31 December 2016.**

<http://www.mathunion.org/general/prizes/nomination-guidelines/>

#### **CAIMS-Fields Industrial Mathematics Prize.**

The Canadian Applied and Industrial Mathematics Society (CAIMS) and the Fields Institute would like to invite nominations for the CAIMS-Fields Industrial Mathematics Prize. This prize is to be awarded to a researcher in recognition of exceptional research in any branch of industrial mathematics, interpreted broadly. The nominee's research should have been conducted primarily in Canada. **Closing date: January 2017.**

<https://www.caims.ca/content/2017-caims-fields-industrial-mathematics>

#### **SIAM Student paper prize.**

The SIAM student paper prize is awarded every year to the student author(s) of the most outstanding paper(s) submitted to the SIAM Student Paper Competition. This award is based solely on the merit and content of the students contribution to the submitted paper. Up to three awards may be given. **Closing date: 15 February 2017.**

<http://www.siam.org/prizes/nominations.php>

#### **Coxeter-James Prize 2018.**

The Coxeter-James Prize Lectureship recognizes young mathematicians who have made outstanding contributions to mathematical research. The selected candidate will deliver the prize lecture at the Winter Meeting. **Closing date: 30 June 2017.**

<http://cms.math.ca/Prizes/cj-nom.e>

#### **ECCOMAS young investigators awards.**

For young scientists in the field of Computational Engineering/Mathematical Sciences **Closing date: December 2017.**

<http://www.eccomas.org/vpage/1/2/Young-Investigators-Awards>

#### **Humphreys Award.**

Award for mentorship of undergraduate women in Mathematics **Closing date: April 30, Year N for the Year N+1 Award.**

<https://sites.google.com/site/awmmath/programs/humphreys-award>

#### **Abdus Salam Medal.**

The world Academy of Science of developing countries **Closing date: No precise deadline.**

<http://twas.org/opportunity/abdus-salam-medal>

## **Financial support for research projects and conferences**

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#### **Financial support for attendance to conferences.**

RSME **Deadline: 30 March-30 September every year.**

<http://www.rsme.es/content/blogcategory/64/117/>

#### **Financial support for workshop organization.**

Banff International Research Station **Deadline:**

**No precise deadline but notification with months in advance.**

<http://www.birs.ca/programs/general-program-descriptions>

#### **The Royal Society Grants.**

Fund about 1500 researchers, including approximately 600 research fellows, through grant schemes. **Deadline: No precise deadline.**

<https://royalsociety.org/grants/>

### **APEX Awards.**

In partnership with the British Academy, the Royal Academy of Engineering and the Royal Society (the Academies) and with generous support from the Leverhulme Trust, the APEX award (Academies Partnership in Supporting Excellence in Cross-disciplinary research award) scheme offers established independent researchers, with a strong track record in their respective area, an exciting opportunity to pursue genuine interdisciplinary and curiosity-driven research to benefit wider society. **Deadline: 13 January 2017.**

<https://royalsociety.org/grants-schemes-awards/grants/apex-awards/>

### **International Mathematical Union-Conference support program.**

Commission for developing countries. This program gives partial support (max. EURO 3,500) to conferences in the mathematical sciences. The funds are for academic use only (travel or living expenses of invited speakers or participants com-

ing from developing countries). **Deadline: No precise deadline but 4 months in advance to the Grant Selection.**

<http://www.mathunion.org/cdc/grants/conference-support-program/>

### **Financial support for organizing scientific conferences.**

SNSF **Deadline: All year round.**

<http://www.snf.ch/en/funding/science-communication/scientific-conferences/Pages/default.aspx>

### **Hosting a workshop at AIMS South Africa.**

AIMS South Africa will make a contribution to the cost of the workshop provided that funding is available, and that the workshop falls within one of its research focus areas. **Deadline: No precise deadline.**

<https://www.aims.ac.za/en/research-centre/workshops-conferences/hosting-a-workshop-at-aims>

## **Interesting news and publications**

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### **Journal of Geometric Mechanics (JGM).**

Volume 8, Number 4, December 2016.

<https://aimsciences.org/journals/home.jsp?journalID=17>

### **IMU-Net 79.**

September 2016.

<http://www.mathunion.org/imu-net/archive/2016/imu-net-079/>

### **ICMAT Newsletter.**

13th number.

<https://www.icmat.es/newsletter/2016/thirteenth.es.pdf>

### **New AIMS Journal.**

New open access journal.

<http://www.aimspress.com/journal/Math>

### **Reports@SCM.**

Reports@SCM is a non-profit electronic research journal on Mathematics published by the Societat Catalana de Matemàtiques (SCM) which originated from the desire of helping students and young researchers in their first steps into the world of research publication.

<http://revistes.iec.cat/index.php/reports/>

### **Jobs for Mathematicians.**

Academic and other math jobs <https://www.mathjobs.org/jobs>

### **Women and Mathematics.**

<http://mym.rsme.es/>

### **Academic positions in Spain, France and Belgium.**

Mathematics and Physics related areas <http://postes.smai.emath.fr/postdoc/>

### **Mathematics in Europe.**

<http://www.mathematics-in-europe.eu/>

### **Matemáticas y sus fronteras.**

<http://weblogs.madrimasd.org/matematicas/>

### **Online textbooks: MIT OPEN COURSEWARE.**

Online textbooks by department <https://ocw.mit.edu/courses/online-textbooks/>

### **Free online courses in Mathematics.**

Free online courses of reputable North American Universities [https://www.edx.org/course?search\\_query=mathematics](https://www.edx.org/course?search_query=mathematics)

### **Search of academic jobs in Mathematics in Europe.**



Look for PhD, post doc positions, research assistant, etc. <http://academicpositions.eu/>

### Search of academic jobs in Mathematics in the UK.

Look for PhD, post doc positions, research assistant, etc <http://www.jobs.ac.uk/categories/postdoc-jobs>

### Search of academic jobs in Mathematics worldwide.

Look for PhD, post doc positions, research assistant, etc <http://www.findapostdoc.com/>, <https://www.postdocjobs.com/>

### Search of academic jobs in Mathematics in Spain.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships <http://www.madrimasd.org/madrid-ciencia-tecnologia/convocatorias>

### Search of academic jobs in Mathematics.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships <http://www.indeed.com/q-Postdoctoral-jobs.html>

### Courses online of Mathematics, Physics and other disciplines.

Courses from 62 universities.  
<https://www.coursera.org/courses?orderby=upcoming>

### Advice for New Ph.D.'s.

<http://www.ams.org/profession/career-info/new-phds/new-phds>

### The American Mathematical Society bookstore.

<http://www.ams.org/bookstore/whatsnew>

## Network's members preprints and papers

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Daniel M. Kane, Joseph Palmer and Álvaro Pelayo: *Minimal models of compact symplectic semitoric manifolds.*

1610.05423 (version 2)  
[math.SG, math.DG]

Álvaro Pelayo: *Hamiltonian and symplectic symmetries: an introduction.*

1610.09718  
[math.SG, math.DG]

J. F. Cariñena, J. Clemente-Gallardo, J. A. Jover-Galtier and J. de Lucas: *Lie systems and Schrödinger equations.*

1611.05630

[math-ph, math.MP, quant-ph, 34A26 (Primary), 17B81, 34A34, 53Z05 (Secondary)]

José F. Cariñena and Mikhail S. Plyushchay: *Ground-state isolation and discrete flows in a rationally extended quantum harmonic oscillator.*

1611.08051  
[hep-th, math-ph, math.MP, nlin.SI, quant-ph]

Francesco Fassò, Luis C. García-Naranjo and Nicola Sansonetto: *Moving energies as first integrals of nonholonomic systems with affine constraints.*

1611.08626  
[math.DS, math-ph, math.MP, nlin.SI, 70F25, 37J60, 37J15, 70E18]

## Network's collaborators preprints and papers

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Gabriel Álvarez, Luis Martínez Alonso and Elena Medina: *Complex saddles in the Gross-Witten-Wadia matrix model.*

1610.09948  
[hep-th, math-ph, math.MP]

Karl-Herman Neeb and Gestur Olafsson: *KMS conditions, standard real subspaces and reflection positivity on the circle group.*

1611.00080  
[math-ph, math.FA, math.MP]

Henrique Bursztyn, Nicolás Martínez Alba and

Roberto Rubio: *On higher Dirac structures.*

1611.02292 (version 2)  
[math.SG, math-ph, math.DG, math.MP, 53D17]

Marcos Salvai: *Centro-affine invariants and the canonical Lorentz metric on the space of centered ellipses.*

1611.02347  
[math.DG, 53A55 (Primary) 53A04, 53A15, 53B30 (Secondary)]

Tomoki Ohsawa and Cesare Tronci: *Geometry and Dynamics of Gaussian Wave Packets and*

*their Wigner Transforms.*

1611.04081

[math-ph, math.MP, math.SG]

Vicente Muñoz and Carlos S. Shahbazi: *Construction of the moduli space of Spin (7)-instantons.*

1611.04127

[math.DG, hep-th, 53C38, 53C07, 53C25, 58D27]

Leonardo Bagaglini, Marisa Fernández and Anna Fino: *Coclosed  $G - 2$ -structures inducing nilsolitons.*

1611.05264

[math.DG]

Alberto S. Cattaneo, Nima Moshayedi and Konstantin Wernli: *Relational Symplectic Groupoid Quantization for Constant Poisson Structures.*

1611.05617

[math-ph, hep-th, math.MP, math.QA, math.SG, 53D55 (Primary), 53D17, 57R56, 81T70 (Secondary)]

Giovanni Nunes and Jaime Ripoll: *On the critical points of the energy functional on vector fields of a Riemannian manifold.*

1611.07066

[math.DG]

Jonathan Lorand and Alan Weinstein: *Decomposition of (co)isotropic relations.*

1509.04035 (version 3)

[math.SG, 15A21, 18B10, 53D99]

Andrew James Bruce, Janusz Grabowski and Mikolaj Rotkiewicz: *Polarisation of Graded Bundles.*

1512.02345 (version 2)

[math-ph, math.DG, math.MP, math.QA, math.SG, 55R10, 58A32, 58A50]

Matías L. del Hoyo and Rui Loja Fernandes: *Riemannian metrics on differentiable stacks.*

1601.05616 (version 2)

[math.DG, 22A22, 58H05]

Partha Guha, E. Harikumar and Zuhair N. S: *Regularization of Kepler Problem in  $\kappa$ -spacetime.*

1604.07932 (version 2)

[math-ph, gr-qc, hep-th, math.MP]

Francesco Bonechi, Alberto S. Cattaneo and Riccardo Iraso: *Comparing Poisson Sigma Model with A-model.*

1607.03411 (version 2)

[hep-th, math-ph, math.MP, math.QA]

Henry Kibler and Dirk Kreimer: *Diagrammatic Cancellations and the Gauge Dependence of QED.*

1607.05729 (version 3)

[hep-th, math-ph, math.MP]

N. Aizawa, Z. Kuznetsova, H. Tanaka and F. Toppan:  *$\mathbb{Z}_2 \times \mathbb{Z}_2$ -graded Lie Symmetries of the Lévy-Leblond Equations.*

1609.08224 (version 3)

[math-ph, hep-th, math.MP, nlin.SI]

## Other Conferences

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### **Algebra and Geometry Meeting.**

30 November-2 December 2016, Barcelona, Spain.

<https://sites.google.com/site/agmeeting2016/>

### **Geometric Analysis and Control Theory.**

8–12 December 2016, Sobolev Institute of Mathematics SB RAS–Novosibir, Russia.

<http://gct.math.nsc.ru/?event=geometric-analysis-and-control-theory-rus&lang=en>

### **11th IMA International Conference on Mathematics in Signal Processing.**

12–14 December 2016, Birmingham, United Kingdom.

[http://www.ima.org.uk/conferences/conference\\_s\\_calendar/11th\\_maths\\_in\\_signal\\_processing.htm](http://www.ima.org.uk/conferences/conference_s_calendar/11th_maths_in_signal_processing.htm)

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### **Marrakesh Workshop On Control, Inverse Problems and Stabilization of Infinite Dimensional Systems.**

12–16 December 2016, Marrakesh, Morocco.

<http://cipsmar2016.uca.ma/>

### **QUANTMOD-Quantization and Moduli Spaces.**

9–13 January 2017, Luxembourg.

<http://math.uni.lu/quantmod/>

### **11th Young Researchers workshop on Geometry, Mechanics and Control.**

12–14 January 2017, Tenerife, Islas Canarias, Spain.

<http://gmcnet.webs.ull.es/>

### **Iberoamerican conference on Geometry,**

**Mechanics and Control.**

16–20 January 2017, Tenerife, Islas Canarias, Spain.

<http://gmcnet.webs.ull.es/>

**Current Developments in Mathematical Fluid Dynamics: Regularity, Instabilities, and Turbulence .**

24–27 January 2017. Providence. USA.

[https://icerm.brown.edu/topical\\_workshops/tw17-2-mfd/](https://icerm.brown.edu/topical_workshops/tw17-2-mfd/)

**Bangkok Workshop on Discrete Geometry and Statistics.**

30 January-3 February 2017. Bangkok. Thailand.

<http://thaihep.phys.sc.chula.ac.th/BKK2017DSCR/>

**MFO Workshop Discrete Geometry .**

9–15 April 2016, Oberwolfach, Germany.

<http://www.mfo.de/www/schedule/2017/all>

**Spring School ContrOpt 2017 : Control and Optimization.**

15–19 May 2017, Monastir, Tunisia.

<https://www.lama.univ-savoie.fr/ContrOpt2017/>

**Complex Geometry, Dynamical Systems and Foliation Theory.**

21–16 May 2017, Singapore.

<http://www2.ims.nus.edu.sg/Programs/017geo/index.php>

**Methods in Geometry and Physics.**

5–7 May 2017, Allerton, IL, United States.

<http://schapos.people.uic.edu/Steve.html>

**SIAM conference on applications of dynamical systems.**

21–25 May 2017, Snowbird, Utah, US.

<http://www.siam.org/meetings/calendar.php>

**Mathematical aspects of the physics with non-self-adjoint operators.**

5–9 June 2017. Marseille, France.

<http://gemma.ujf.cas.cz/~david/Conferences.html>

**International Conference on Differential and Difference Equations and Applications 2017.**

5–9 June 2017, Amadora, Portugal.

<https://sites.google.com/site/sandrapinelas/icdeea-2017>

**FDIS2017 Finite Dimensional Integrable Systems in Geometry and Mathematical Physics.**

3–7 July 2017, Barcelona, Spain.

[http://www.crm.cat/en/Activities/Curs\\_2016-2017/Pages/Finite-Dimensional-Integrable-Systems-in-Geometry-and-Mathematical-Physics.aspx](http://www.crm.cat/en/Activities/Curs_2016-2017/Pages/Finite-Dimensional-Integrable-Systems-in-Geometry-and-Mathematical-Physics.aspx)

**11th International Conference on Clifford Algebras and Their Applications in Mathematical Physics.**

7–11 August 2017, Ghent, Belgium.

<http://www.icca11.ugent.be/>

**Mathematical Questions and Challenges in Quantum Electrodynamics and its Applications .**

10–16 September 2017, Oberwolfach, Germany.

<http://www.mfo.de/www/schedule/2017/all>

**Classical and Quantum Mechanical Models of Many-Particle Systems .**

3–9 December 2017, Oberwolfach, Germany.

<http://www.mfo.de/www/schedule/2017/all>

**NOTE: If you want to include information in this info-sheet, please send it to [gmcnet@ull.es](mailto:gmcnet@ull.es)**