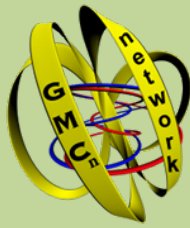


# GMC Network Infosheet

June 2013



## Geometry, Mechanics and Control Network Infosheet

June 2013

Editors: Javier de Lucas  
and Silvia Vilariño

## CONTENTS

### Network's activities

7<sup>th</sup> SSGMC

8<sup>th</sup> IYRWGMC

Job offers,  
fellowships and  
awards

Ph.D. Offers

Postdoctoral offers

Offers for visiting and  
senior researchers

Awards

Financial support for  
research projects and  
conferences

Interesting news  
and publications

Network's members  
and collaborators  
preprints and papers

Other conferences

## Network's activities

### 7th International Summer School on Geometry, Mechanics and Control (ICMAT School).

La Cristalera, Miraflores de la Sierra, Madrid, Spain. July 1-5, 2013.

#### Speakers:

- M. J. GOTAY (Pacific Institute for the Mathematical Sciences, Canada): *Momentum Maps, Constraints and Classical Field Theories.*
- P. S. KRISHNAPRASAD (University of Maryland, USA): *Geometry of Collectives: Control, Dynamics and Reconstruction.*
- D. PERALTA SALAS (Instituto de Ciencias Matemáticas CSIC-UAM-UC3M-UCM, Spain): *Topological structures in steady fluid flows.*

<http://gmcnetwork.org/?q=activity-detail/867>.

### 8th International Young Researchers Workshop on Geometry, Mechanics and Control.

Technical University of Catalonia, Barcelona, Spain. December 11-13, 2013.

#### Speakers:

- C. ARIA ABAD (Universität Zürich, Germany).
- P. BADER (Universidad Politécnica de Valencia, Spain).
- F. X. VIALARD (Université Paris-Dauphine, France).

<http://gmcnetwork.org/?q=activity-detail/1027>.

### deLeónfest 2013.

ICMAT, Madrid, Spain. December 16-19, 2013.

<http://www.icmat.es/deLeonfest/>.

## Job offers, fellowships and awards

---

### Ph.D. offers

---

#### GSSI application to Ph.D. programs.

Gran Sasso Science Institute (GSSI).

Italy.

**Closing date: July 15, 2013 (6:00 pm Italian time).**

[http://www.gssi.infn.it/index.php/en/?option=com\\_rsform&formId=11](http://www.gssi.infn.it/index.php/en/?option=com_rsform&formId=11)

#### Ph.D. Studentship in the Theory of Water Waves.

Department of Mathematics.

University of Surrey, England, UK.

**Closing date: July 19, 2013.**

<http://www.jobs.ac.uk/job/AG0214/>

#### 170 grants for embarking on post-graduate study programmes at the UAM: call 2013.

Universidad Autónoma de Madrid.

Madrid, Spain.

A call has been published to support university students embarking in master's (Máster Universitario) or pre doctoral (Periodo Formativo de Programa de Doctorado) studies at the UAM.

**Closing date: July 1-31, 2013.**

<http://www.icmat.es/job-opportunities/degree/uam/2013>

#### Early Stage Researcher in the Hamilton Institute (2 positions).

Hamilton Institute.

National University of Ireland, Maynooth, Co. Kildare.

**Closing date: July 31, 2013, Midnight.**

<http://humanresources.nuim.ie/documents/JobsSpecForAdvertisingFinal.pdf>

#### Ph.D. Positions in Algebraic Geometry.

Faculty of Mathematics.

Vienna University, Austria.

**Closing date: End of July 2013.**

<http://homepage.univie.ac.at/herwig.hauser/positions%20algebraic%20geometry.pdf>

#### EPSRC PhD Studentship on Inverse Problems for Cell Motility.

School of Mathematical & Physical Science.

University of Sussex, England, UK.

**Closing date: September 2, 2013.**

<http://www.jobs.ac.uk/job/AGS984/>

#### Ph.D. Student in Mathematics.

University of Luxembourg.

Luxembourg.

The University of Luxembourg has the following vacancy in the Mathematics Research Unit (research group of Prof. Norbert Poncin) of its Faculty of Sciences, Technology and Communication: Assistant (Ph.D. student) in Mathematics (M/F) (Reference: F1-070051).

**Closing date: September 30, 2013.**

[http://www.en.uni.lu/recherche/fstc/mathematics\\_research\\_unit/people/norbert.poncin](http://www.en.uni.lu/recherche/fstc/mathematics_research_unit/people/norbert.poncin)

#### Ph.D. Studentship in Geometry of Jets and field theory.

Institute of Mathematics (IMPAN).

Polish Academy of Sciences, Warsaw, Poland.

We are looking for PhD students in mathematics and/or mathematical physics (also graduate students willing to start their PhD soon) interested in scientific work within the project 'Geometry of Jets and Field theories' performed under the Polish National Science Centre grant MAESTRO. The project aims at combining resources of the traditional differential geometry of gauge and jet bundles with functional analysis and recently developed methods, based on supergeometry and graded manifolds, AKSZ/BRST formalism, higher structures, and homotopy algebras, in order to develop a new geometrical framework for field theories of various types. A financial allowance (in addition to any scholarship obtained by the candidate) is anticipated.

**Closing date: any time.**

<http://www.impan.pl/~jagrab/maestro-phd.pdf>

#### Ph.D. Fellowships in Nonlinear Dynamical Systems.

Institute of Mechanical Systems.

ETH Zürich.

[http://georgehaller.com/Nonlinear\\_Dynamics\\_at\\_ETH.pdf](http://georgehaller.com/Nonlinear_Dynamics_at_ETH.pdf)

#### Student and Research Fellowships.

The International Mathematical Union, the Einstein Foundation Berlin and the Berlin Mathematical School.

Berlin, Germany.

The International Mathematical Union, the Einstein Foundation Berlin and the Berlin Mathematical School invite applications from Ph.D.

students and researchers from developing countries for research visits in the active Berlin mathematics research environment. Research visits can last between three to nine months. The program has been established on the occasion of the establishment of the IMU secretariat in Berlin by the Einstein Foundation Berlin (ESB).

**Closing date:** At least six months before the desired starting date.

<http://www.math-berlin.de/efp/imu-esb>

### **Research Opportunities for Students in Applied Mathematics.**

Basque Center for Applied Mathematics (BCAM).

Bilbao, Basque Country, Spain.

BCAM brings the opportunity for excellent international students to join a world-class interdisciplinary research center in Bilbao, Spain.

The applications for the internship positions may take a form of:

- Summer or one-semester stay,
- Master thesis
- Industrial project
- Part of Ph.D. thesis.

**Closing date:** any time.

<http://www.bcamath.org/en/research/internships>

### **Ph.D. Research Project: Inverse Problems (PIM).**

Department of Applied Mathematics.

University of Leeds, UK.

**Closing date:** applications accepted all year round.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=19061&LID=754>

### **Ph.D. Research Project: Classical and Quantum Integrability.**

Department of Applied Mathematics.

## **Postdoctoral fellowships**

---

### **Research Assistant in Applied Mathematics.**

School of Mathematics.

University of Bristol, UK.

**Closing date:** June 30, 2013.

<http://www.jobs.ac.uk/job/AGQ358/>

University of Leeds, UK.

**Closing date:** applications accepted all year round.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=19048&LID=754>

### **Ph.D. Research Project: Nonlinear Integrable PDEs and Non-commutative Geometry (Integrable Systems).**

Department of Applied Mathematics.

University of Leeds, UK.

**Closing date:** applications accepted all year round.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=19046&LID=754>

### **Ph.D. Research Project: Quantum Discrete Systems and Integrability.**

Department of Applied Mathematics.

University of Leeds, UK.

**Closing date:** applications accepted all year round.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=19072&LID=754>

### **Ph.D. Research Project: Sine-Gordon Solitons vs. Calogero-Moser Particles (Integrable Systems).**

Department of Applied Mathematics.

University of Leeds, UK.

**Closing date:** applications accepted all year round.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=19075&LID=754>

### **Ph.D. Research Project: Integrable Difference Equations.**

Department of Applied Mathematics.

University of Leeds, UK.

**Closing date:** applications accepted all year round.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=19071&LID=754>

### **Open Positions for a Marie-Curie postdoc.**

MTU Aero Engines.

Munich, Germany.

The MTU Aero Engines (Munich, Germany, [www.mtu.de](http://www.mtu.de)) has an opening for one 12-18month postdoc position (experienced researcher 4-10 years experience) under an EU 7 FP People Program "Industry-Academia Partnerships and

Pathwaysi” (Call: FP7-PEOPLE-2012-IAPP) on ”Exact and Adaptive Modeling and Simulation of the Air Passage of Aircraft Engines” (EXAMPLE) in cooperation with the Institute for Applied Geometry of the academic partner Johannes Kepler University (JKU).

**Closing date: July 1, 2013.**

<http://www.mtu.de/de/>

### **Part Time Postdoctoral Assistant in Analysis and Mathematical Physics.**

Mathematical Institute.

University of Potsdam, Germany.

Applications should be sent by Thursday July 4. 2013 to Mrs Jana Tesch: [tesch@math.uni-potsdam.de](mailto:tesch@math.uni-potsdam.de)

**Closing date: July 4, 2013.**

### **TWAS-CNPq Postgraduate Fellowship Programme.**

The National Council for Scientific and Technological Development (CNPq).

Brasilia, Brazil.

**Closing date: July 5, 2013.**

<http://twas.ictp.it/prog/exchange/fells/fells-pg/bra-pg>

### **Postdoctoral position in the Hamilton Institute.**

Hamilton Institute.

National University of Ireland, Maynooth, Co. Kildare.

**Closing date: July 31, 2013, Midnight.**

<http://humanresources.nuim.ie/documents/JobsSpecForAdvertisingFinal.pdf>

### **Postdoctoral Positions in Algebraic Geometry.**

Faculty of Mathematics.

Vienna University, Austria.

**Closing date: End of July 2013.**

<http://homepage.univie.ac.at/herwig.hauser/positions%20algebraic%20geometry.pdf>

### **Fulbright Postdoctoral Research Grants for US Senior Scholars and Professional.**

**Closing date: August 1, 2013.**

<http://fulbright.es/>

### **Marie Curie 2013. Intra-European Fellowships, International Outgoing Fellowships, International Incoming Fellowships..**

**Closing date: August 14, 2013.**

[http://ec.europa.eu/research/mariecurieactions/apply-now/open-calls/index\\_en.htm](http://ec.europa.eu/research/mariecurieactions/apply-now/open-calls/index_en.htm)

### **Weierstrass Postdoctoral Fellowship Program.**

Weierstrass Institute for Applied Analysis and Stochastics (WIAS).

Forschungsverbund, Berlin, Germany.

WIAS offers postgraduate fellowships for 2012/2013. Their duration is six or twelve months. These fellowships are designed to enable highly-qualified young scientists to participate in the research into the mathematical problems in the above fields, thus furthering their education and training.

**Closing date: August 31, 2013 and February 28, 2014.**

<http://www.wias-berlin.de/jobs/fellowship.jsp?lang=1>

### **Postdoctoral AFR grants in Mathematics.**

University of Luxembourg.

Luxembourg.

Research area

PDA 1: Supergeometry, algebraic geometry, derived geometry, higher structures in geometry, higher category theory

PDA 2: Algebraic topology, homotopy theory, operad theory, higher algebras, higher categories.

**Closing date: Reference PDA 1: June 30, 2013.**

**Reference PDA 2: December 15 2013.**

[http://www.uni.lu/recherche/fstc/mathematics\\_research\\_unit/people/norbert.poncin](http://www.uni.lu/recherche/fstc/mathematics_research_unit/people/norbert.poncin)

### **Grants for short postdoctoral research visits at IMUS.**

IMUS.

Sevilla, Spain.

The goal of these grants is the establishment or development of research collaborations between young doctors from outside the University of Seville and University researchers in the field of Mathematics or its applications to other disciplines. The stays will have a consecutive duration of 2 months, although longer periods could be considered on the basis of the proposed work plan. The stays will take place between September 1<sup>st</sup>, 2013 and July 31<sup>st</sup>, 2014.

**Closing date: December 10, 2013.**

<http://www.imus.us.es/images/stories/noticias/2013/estancias-IMUS-2013-en.pdf>

### **Postdoctoral Positions in Analysis in Erlangen.**

Department of Mathematics.

University of Erlangen, Germany.

The positions will be devoted to research in Analysis, more specifically in Calculus of Variations

and PDE, under different points of view. Moreover, there is a broad flexibility regarding the starting date of the positions.

The candidates must send an application by email, containing the CV with a list of publications and of talks given. The starting date for the positions can be from Jan. 1st, 2013, but it is easily possible to discuss another date, if needed. Any request or information, as well as the applications, has to be sent by email to pratelli@math.fau.de.

**Closing date: Any time.**

<http://www.analysis.math.fau.de/staff-members/pratelli-aldo/prof-dr-aldo-pratelli/positio>

## **Offers for visiting and senior researchers**

---

### **Lecturer in Applied Mathematics (2 posts).**

School of Computing and Mathematics.  
Plymouth University, UK.

**Closing date: June 27, 2013 (12 midnight).**

<http://www.jobs.ac.uk/job/AGQ187/>

### **Assistant Professor in Mathematics.**

Department of Mathematics.  
Pontificia Universidad Catolica de Chile, Chile.

**Closing date: June 30, 2013.**

<http://www.all-acad.com/files/52045.pdf>

### **Assistant Professor/Associated Professor/Professor in Mathematics.**

The College of Mathematics.  
Hunan University, Republic of China.

**Closing date: July 3, 2013.**

<http://www.jobs.ac.uk/job/AGM135/>

### **Assistant professor of Mathematics in the division of Fundamental Mathematics (tenure-track).**

The Mathematical Institute.  
Utrecht University, Netherlands.

We are searching for candidates whose expertise is in connection with geometry and/or mathematical physics, in the broadest sense. This comprises, but is not limited to, algebraic geometry, automorphic forms, differential geometry, geometric analysis, and non-commutative geometry. **Closing date: July 7, 2013.**

<http://www.uu.nl/EN/informationfor/jobseekers/Pages/vacancies.aspx?refer=/vacancies>

### **Assistant/Associate Professor in discrete mathematics (Tenure-track).**

Department of Mathematics.

[ns/post-doc-and-phd-positions.html](http://www.math.fau.de/ns/post-doc-and-phd-positions.html)

### **Postdoctoral Position.**

Department of Mathematics.  
Baylor University, Texas, USA.

**Closing date: Until position is filled.**

<http://www.mathjobs.org/jobs/jobs/3886>

### **Riemann Fellowships to Mathematicians and Theoretical Physicists.**

Riemann Center for Geometry and Physics.  
Leibniz Universität Hannover, Germany.

**Closing date: any time.**

<http://riemanncenter.de/fellowships.html>

VU University Amsterdam, Netherlands.

**Closing date: July 7, 2013.**

<http://www.vu.nl/nl/werken-bij-de-vu/vacatures/2013/109.asp>

### **Tenure Track Assistant Professor.**

Johann Bernoulli Institute for Mathematics and Computer Science.

University of Groningen, Netherlands.

**Closing date: July 15, 2013.**

<http://www.euro-math-soc.eu/node/3899>

### **Professor in Pure Mathematics.**

Department of Mathematics and Statistics.  
University of Melbourne, Australia.

**Closing date: July 10, 2013.**

<http://eims.ams.org/jobs/5400721/professor-in-pure-mathematics>

### **Professor / Associate Professor in Applied Mathematics.**

School of Computing, Engineering and Mathematics.

University of Western Sydney, Australia.

**Closing date: July 31, 2013.**

<http://www.jobs.ac.uk/job/AGR890/>

### **Aid to invite speakers Fulbright.**

**Closing date: July 31, 2013.**

<http://fulbright.es/convocatorias/ver/1378/ayudas-para-que-instituciones-espanolas-invitara-a-conferenciantes-fulbright-para-un-periodo-maximo-de-dos-semanas/2012-2013>

### **Assistant Professor of Mathematics (tenure track).**

Faculty of Science.

Radboud University, Nijmegen, Netherlands.



**Closing date: August 1, 2013.**

[http://www.ru.nl/vacatures/details/details\\_vacature\\_0?recid=527849](http://www.ru.nl/vacatures/details/details_vacature_0?recid=527849)

**Professor in Mathematics with focus on Geometry.**

Department of Mathematics.  
Stockholm University, Sweden.

**Closing date: August 15, 2013.**

<http://www.su.se/english/about/vacancies/lecturers-researchers/professor-in-mathematics-with-focus-on-geometry-1.123282>

**Full-time Academic vacancy in the Group of Science, Engineering & Technology.**

Department of Mathematics, Faculty of Science.  
KU Leuven, Belgium.

**Closing date: September 30, 2013.**

<http://icts.kuleuven.be/apps/jobsite/vacatures/52484362?lang=en>

**Open position-Director of the Weierstrass Institute and Professorship (W3-S) in Applied Mathematics.**

(Succession of Professor Dr. Jürgen Sprekels).  
Weierstrass Institute for Applied Analysis and Stochastics, Berlin.

**Closing date: April 1, 2014.**

<http://www.wias-berlin.de/jobs/Ausschr-NFSprekels-eng111206.pdf>

**Mathematics Department Adjunct Faculty.**

Mathematics Department.  
Salt Lake Community College, Salt Lake County, UT, USA.

**Closing date: Open until filled.**

[http://sciences.academickeys.com/seeker\\_job\\_display.php?job\[IDX\]=44867](http://sciences.academickeys.com/seeker_job_display.php?job[IDX]=44867)

**Assistant Professor in Applied Mathematics.**

Department of Mathematical and Statistical Sciences.

University of Alberta, Canada.

**Closing date: Open until filled.**

[http://www.mathstats.ualberta.ca/~media/University%20of%20Alberta/Faculties/Science/Departments/Math%20and%20Stat%20Sciences/Documents/GradStudentResources/Employment\\_Posting\\_3.pdf](http://www.mathstats.ualberta.ca/~media/University%20of%20Alberta/Faculties/Science/Departments/Math%20and%20Stat%20Sciences/Documents/GradStudentResources/Employment_Posting_3.pdf)

**Assistant Professor in Math Physics.**

Department of Mathematical and Statistical Sciences.

University of Alberta, Canada.

**Closing date: Open until filled.**

[http://www.mathstats.ualberta.ca/~media/University%20of%20Alberta/Faculties/Science/Departments/Math%20and%20Stat%20Sciences/Documents/GradStudentResources/Employment\\_Posting\\_2.pdf](http://www.mathstats.ualberta.ca/~media/University%20of%20Alberta/Faculties/Science/Departments/Math%20and%20Stat%20Sciences/Documents/GradStudentResources/Employment_Posting_2.pdf)

**Assistant Professor of Applied Mathematics.**

College of Education & Basic Sciences.

Ajman University of Science and Technology,  
United Arab Emirate.

Position Start Date: August 15, 2013.

**Closing date: Open Until Filled.**

[http://sciences.academickeys.com/seeker\\_job\\_display.php?dothis=display&job\[IDX\]=43762-SC130322b-8e&oid=798206](http://sciences.academickeys.com/seeker_job_display.php?dothis=display&job[IDX]=43762-SC130322b-8e&oid=798206)

**Abel Visiting Scholar Program.**

The Niels Henrik Abel Board.

the International Mathematical Union.

The Niels Henrik Abel Board and the International Mathematical Union invite applications from mathematicians professionally based in developing countries to visit an international research collaborator for a period of one month. The period is extendable for up to three month in the case of matching support from the host institution. Up to three mathematicians per year will be supported.

The program is designed for post doctoral mathematicians in the early stages of their professional careers. It is designed to offer the opportunity for a “research sabbatical”, a necessary complement to teaching and other academic duties for mathematicians desiring to also sustain a viable research program.

Applicants must hold a PhD in Mathematics and be in the early stages of their professional careers. This means that the applicant should be under 40 years on July 1st 2013 and not yet of full professorial rank.

The maximum age may be increased by up to three years in the case of an individual with a broken career pattern. Applications from women mathematicians are strongly encouraged. The applicant should already have initiated research contact with the proposed international research partner. The collaboration should take place at the international partnering home institution.

**Closing date: From July 1, 2013, until:**

- August 1, 2013 for research visits starting December 1, 2013 and later.

- December 1, 2013 for research visits starting April 1 2014 and later.

- April 1 2014 for research visits starting August

1, 2014 and later.

<http://www.mathunion.org/cdc/grants/abel-visiting-scholar-program/>

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

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

CIRM Visiting Scholars will perform mathematical research in cooperation with scientists and researchers of Trento University or, more generally, of the Trento area, holding some research seminars. CIRM Visiting Professors will hold short Ph.D. courses, or ‘Summer Courses’, or series of seminars. It is foreseen that the selection process for Visiting Professors-Scholars take place through either individual application, or Invitation by a professor of Trento University or by a member of the Advisory Board.

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

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

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

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

This type of program is similar to the one of the Mathematisches Forschungsinstitut Oberwolfach, and foresees the presence of two or three partners from Universities located in different towns, who intend to work on a definite research project and for a well specified period of time (ranging from one to six weeks). Applicant partners must submit a scientific project in the field of mathematics, with a detailed research program, resulting in one or more scientific publications on journals of excellent mathematical level; the support of the CIRM will then be acknowledged in the resulting publications. Participants in the RIP Program will also give occasional research seminar talks at the CIRM or at the University of Trento, but will enjoy freedom in the pursuit of their scientific goals. Applications where one or more of the partners are Italians will of course be welcome.

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

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

### **Visiting the ICMAT.**

ICMAT.

Madrid, Spain.

The ICMAT offers the possibility of hosting researchers wishing to stay at the institute for a period normally ranging from one to twelve months,

preferably having a research plan and a scientific connection with ICMAT researchers. Visitors will be provided with office space and working facilities at the institute, as well as house-finding assistance if necessary. No financial support will be provided for these visits. Applications can be submitted at any time by sending the required information to the ICMAT at [gestion@icmat.es](mailto:gestion@icmat.es).

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

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

### **Visiting the CRM.**

Centre de Recerca Matemàtica.

Catalonia, Spain.

The CRM offers the possibility of hosting researchers wishing to stay at the Centre for a period normally ranging from one to six months, preferably 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 office space and working facilities at the Centre, as well as house-finding assistance if necessary. Support for housing expenses can be requested, although the CRM can only assign an overall small amount of support to visits outside its Research Programmes. Visits should be carried out during the academic year (from September to July). A resolution will be given by the CRM no later than three months after submission of the application.

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

<http://www.crm.cat/en/VisitingTheCRM/Pages/GuidelinesvisitingCRM.aspx>

### **Research in Pairs in Barcelona.**

Centre de Recerca Matemàtica.

Catalonia, Spain.

Application are welcome for stays at the CRM aiming to carry out collaborative research work of a small team of people, consisting of: a principal investigator, staying at the CRM for a quarter or a semester. One or two collaborators, staying at the CRM for at least one month. Researchers from Catalan universities can apply as principal investigators if they are free from teaching duties during the period of their stay at the CRM. Office space and working facilities will be provided by the CRM, as well as house-finding assistance if necessary. Support for housing expenses can

be requested, and priority will be given to applications with a self-funded principal investigator. Visits should be carried out during the academic year (from September to July).

**Closing date:** Applications can be submitted at

any time generally between 6 and 12 months before the start of the desired stay.

<http://www.crm.cat/en/VisitingTheCRM/Pages/COLLABORATION-RESEARCH-STAYS.aspx>

## Awards

---

### EMS Monograph Award.

On the occasion of its 10th anniversary the EMS Publishing House is pleased to announce the EMS Monograph Award. The prize is endowed with 10.000 Euro, and the winning monograph is published by the EMS Publishing House in the series EMS Tracts in Mathematics.

**Closing date:** June 30, 2013.

[http://www.ems-ph.org/EMS\\_Monograph\\_Award.php](http://www.ems-ph.org/EMS_Monograph_Award.php)

### BBVA Foundation “Frontiers of Knowledge Awards” 2013.

**Closing date:** July 1, 2013.

<http://www.fbbva.es/TLFU/tlfu/ing/microsites/premios/fronteras/index.jsp>

### ICIAM Prizes for 2015.

The ICIAM Prize Committee for 2015 now calls for nominations for the five ICIAM Prizes to be awarded at the 2015 Congress.

**Closing date:** October 31, 2013.

<http://www.iciam.org/Prizes/Prizes-CallforNominations2015.pdf>

## Financial support for research projects and conferences

---

### Marie Curie Career Integration Grants (CIG).

**Deadline:** September 18, 2013 (17:00 Brussels local time).

[http://ec.europa.eu/research/mariecurieactions/apply-now/open-calls/index\\_en.htm](http://ec.europa.eu/research/mariecurieactions/apply-now/open-calls/index_en.htm)

### 2015 CIMPA research schools call for projects.

The call of proposal for 2015 will begin in March 2013. If you want to know how to propose a research school project, go to the following web page: <http://www.cimpa-icpam.org/spip.php?rubrique35&lang=enandtheRoadmap>

**Deadline:** October 1, 2013.

<http://www.cimpa-icpam.org/spip.php?article151>

### Call for 2015-2016 Research Programmes.

The CRM invites proposals for Research Programmes during the academic year 2015-2016 in any branch of mathematics and its applications. CRM Research Programmes consist of periods ranging between two to five months of intensive research in a given area of mathematics and its applications. Researchers from different institutions are brought together to work on open problems and to analyse the state and perspectives of their area.

**Deadline:** November 29, 2013 (preliminary submission by October 25, 2013.).

<http://www.crm.cat/en/Pages/DetailCrida.aspx?ItemID=7>

## Interesting news and publications

---

### Journal of Geometric Mechanics (JGM).

Volume 5, Number 1, March 2013.

<http://www.aims sciences.org/journals/contents/Listnew.jsp?pubID=591>

### IMU-Net 59: International Mathematical Union Newsletter.

May 2013

<http://www.mathunion.org/imu-net/archive/2013/imu-net-059/>

### IMU-Net 59b : Special issue on ICM 2014 invitation program “NANUM 2014”.

June 2013

<http://www.mathunion.org/imu-net/archive/2013/imu-net-059b/>

### ICMAT Newsletter.

Second number

[http://www.icmat.es/newsletter/2013/second\\_en.pdf](http://www.icmat.es/newsletter/2013/second_en.pdf)



**2013 has been declared a special year for the Mathematics of Planet Earth.**

Related activities are listed at: <http://mpe2013.org/>

**Info website for Ph.D Students in Mathematics.**

i-Math Consolider project (only in Spanish)  
<http://www.doctoradomath.es/>

**Online Encyclopedia of Mathematics.**

[http://www.encyclopediaofmath.org/index.php/Main\\_Page](http://www.encyclopediaofmath.org/index.php/Main_Page)

**Mathematics in Europe.**

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

**Matemáticas y sus fronteras.**

### **Network's members preprints and papers**

---

A. G. Volosniev, D. V. Fedorov, A. S. Jensen, M. Valiente and N. T. Zinner: *Strongly-interacting fermions in one dimension and microscopic magnetism.*

arxiv:1306.4610[cond-mat.quant-gas cond-mat.str-el math-ph math.MP quant-ph]

L. C. García-Naranjo and J. C. Marrero: *Non-existence of an invariant measure for a homogeneous ellipsoid.*

arxiv:1306.4237[math-ph math.MP]

J. Grabowski, A. Ibort, M. Kuś and G. Marmo: *Convex bodies of states and maps.*

arxiv:1306.3187[math-ph math.MP quant-ph]

J. Clemente-Gallardo and G. Marmo: *The Ehrenfest picture and the geometry of Quantum Mechanics.*

arxiv:1306.1453[quant-ph math-ph math.MP]

J. C. Marrero, N. Román-Roy, M. Salgado, S. Vilariño: *Reduction of polysymplectic manifolds.*

arxiv:1306.0337[math-ph math.MP]

### **Network's collaborators preprints and papers**

---

N. Raymond, S. Vu Ngoc: *Geometry and Spectrum in 2D Magnetic Wells.*

arxiv:1306.5054[math.SP math.SG]

Those interested in publishing something, contact with Manuel de León [mdeleon.dos@gmail.com](mailto:mdeleon.dos@gmail.com) .  
<http://weblogs.madrimasd.org/matematicas/>

**Free access to Ph.D. dissertations all around the world.**

<http://www.ndltd.org/find>

**Professional network for scientists.**

<http://www.researchgate.net/>

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

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

**Courses online of Mathematics, Physics,....**

Courses from 62 universities.

<https://www.coursera.org/courses?orderby=upcoming>

M. Castrillón Lopez, J. Muñoz Masque, E. Rosado Maria: *First-order equivalent to Einstein-Hilbert Lagrangian.*

arxiv:1306.1123[math.DG]

Á. Pelayo and F. Rezakhanlou: *Poincaré-Birkhoff theorems in random dynamics.*

arxiv:1306.0821[math.DS math.PR math.SG]

L. Colombo, D. Martín de Diego and M. Zucalli: *Higher-order discrete variational problems with constraints.*

arxiv:1306.0298[math-ph math.MP]

J. Carlos Marrero, N. Román-Roy, M. Salgado and S. Vilariño: *Reduction of polysymplectic manifolds.*

arxiv:1306.0337[math-ph math.MP]

Á. Pelayo and S. Vũ Ngoc: *Symplectic theory of completely integrable Hamiltonian systems.*

arxiv:1306.0115[math.DS math.SG]

Á. Pelayo and S. Vũ Ngoc: *First steps in symplectic and spectral theory of integrable systems.*

arxiv:1306.0124[math.DS math.SG math.SP]

H. Huang: *A matrix differential Harnack estimate for a class of ultraparabolic.*

arxiv:1306.4810[math.AP math.DG]

M. Asorey and J. M. Muñoz-Castaneda: *Attractive and Repulsive Casimir Vacuum Energy with General Boundary*.

arxiv:1306.4370[hep-th cond-mat.other math-ph math.MP quant-ph]

L. Guo, S. Paycha and B. Zhang: *Renormalization of conical zeta values and the Euler-Maclaurin formula*.

arxiv:1306.3420[math-ph math.CO math.MP math.NT]

A. S. Cattaneo: *Coisotropic submanifolds and dual pairs*.

arxiv:1306.3249[math.SG math-ph math.DG math.MP]

D. Calaque: *Lagrangian structures on mapping stacks and semi-classical TFTs*.

arxiv:1306.3235[math.AG math-ph math.AT math.MP]

D. D. Holm and A. M. Lucas: *Toda lattice G-Strands*.

arxiv:1306.2984[nlin.SI math-ph math.MP]

B. Cappelletti Montano, A. De Nicola and I. Yudin: *Hard Lefschetz theorem for Sasakian manifolds*.

arxiv:1306.2896[math.DG math.SG]

J. Avan, T. Fonseca, L. Frappat, P. Kulish, E. Ragoucy and G. Rollet: *Temperley-Lieb R-matrices from generalized Hadamard matrices*.

arxiv:1306.2927[math-ph math.GR math.MP]

S. Kanno, Y. Matsuo and H. Zhang: *Extended Conformal Symmetry and Recursion Formulae for Nekrasov*.

arxiv:1306.1523[hep-th math-ph math.MP]

R. Bai, L. Guo, J. Li and Y. Wu: *Rota-Baxter 3-Lie algebras*.

arxiv:1306.1990[math-ph math.MP math.QA]

V. Jakubsky, S. Kuru and J. Negro: *Carbon nanotubes in almost homogeneous transverse magnetic field*.

arxiv:1306.2115[cond-mat.mes-hall hep-th math-ph math.MP quant-ph]

S. Kanno, Y. Matsuo and H. Zhang: *Extended Conformal Symmetry and Recursion Formulae for Nekrasov*.

arxiv:1306.1523[hep-th math-ph math.MP]

S. A. Charalambides, P. A. Damianou and C. A. Evripidou: *On generalized Volterra systems*.

arxiv:1305.7329[math-ph math.DS math.MP]

## Other Conferences

---

### Intensive Month on Operator Algebras and Quantum Information.

June 14-July 12, 2013. Madrid, Spain.

<http://www.icmat.es/NTHA/RT-OAM/QI/>

### SUMMER@ICERM: 2013 Undergraduate Summer Research Program “Geometry and Dynamics”.

June 17-August 9, 2013. Rhode Island, USA.

[https://icerm.brown.edu/summerug\\_2013](https://icerm.brown.edu/summerug_2013)

### Physics and Mathematics of Nonlinear Phenomena 2013.

June 22-29, 2013. Gallipoli, Italy.

<http://pmnp2013.dmf.unisalento.it/>

### ERC Workshop “Variational Views in Mechanics and Materials”.

June 24-26, 2013. Pavia, Italy.

<http://www.imati.cnr.it/ulisse/v2m2.html>

### International Conference on Geometry: Theory and Applications.

June 24-28, 2013. Ljubljana, Slovenia.

<http://cgta2013.imfm.si>

### 21st Mediterranean Conference on Control and Automation.

June 25-28, 2013. Greece.

<http://med13.du.edu/>

### Encuentro Geometría Diferencial y sus Aplicaciones (homenaje al Prof. Eugenio Merino Gayoso).

June 27-28, 2013. Ferrol, Spain.

<http://geometria.ferrol2013.udc.es>

### The 6th Pacific RIM Conference on Mathematics 2013.

July 1-5, 2013. Sapporo Convention Center, Sapporo City, Japan.

<http://www.math.sci.hokudai.ac.jp/sympo/130701/>

**Summer School: Integrable Systems and Semiclassical Analysis.**

July 1-5, 2013. Centre Interfacultaire Bernoulli, EPFL, Lausanne, Switzerland.

<http://integrablesystems.epfl.ch/school.php>

**Oxford Conference on Challenges in Applied Mathematics (OCCAM).**

July 1-5, 2013. Oxford, UK.

<http://www.maths.ox.ac.uk/groups/occam/events/oxford-conference-challenges-applied-mathematics>

**JAES School of Mathematics 2013.**

July 1- 26, 2013. ICMAT, Madrid, Spain.

<http://www.icmat.es/events/JAESchool/programme2013>

**Integrable Systems in the XXI century: symplectic, algebraic and spectral theory.**

July 1- December 31, 2013.

<http://integrablesystems.epfl.ch/>

**The 2013 International Conference of Applied and Engineering Mathematics.**

July 3-5, 2013. London, United Kingdom.

<http://www.iaeng.org/WCE2013/ICAEM2013.html>

**SIAM Conference on Control and Its Applications.**

July 8-10, 2013. San Diego, USA.

<http://www.siam.org/meetings/ct13/>

**Mathematics of Planet Earth Australia 2013.**

July 8-12, 2013. Melbourne, Australia.

<http://mathsofplanetearth.org.au/events/2013/>

**TNADE2013 Topics in Numerical Analysis for Differential Equations.**

July 8-12, 2013. Madrid, Spain.

<http://www.icmat.es/congresos/tnade2013/TNADE2013.html>

**Summer School on Dynamical Systems.**

July 8-17, 2013. Gdynia, Poland.

<https://sites.google.com/site/ssods2013>

**Variational methods and partial differential equations workshop on the occasion of Michel Willem's 60th birthday.**

July 11-12, 2013. Belgium.

<http://sites.uclouvain.be/pde2013/>

**The sixth International Congress of Chinese Mathematicians.**

July 14-19, 2013. Taipei, Taiwan.

<http://iccm.tims.ntu.edu.tw/>

**JISD2013- Workshop on Interactions between dynamical systems and partial differential equations.**

July 15-19, 2013. Barcelona, Spain.

<http://www.ma1.upc.edu/recerca/seminaris-receerca/jisd2013/jisd2013>

**XVI Summer Diffiety School.**

July 15-27, 2013. Conference Center "Pomorski Park Naukono-Technologiczny" of Gynia, Poland.

<https://sites.google.com/site/levicivitaInstitut/xvi-summer-diffiety-school>

**European Control Conference.**

July 17-19, 2013. Zurich, Switzerland.

<http://www.ecc13.ch/>

**VII International Meeting on Lorentzian Geometry.**

July 22-26, 2013. Sao Paulo, Brazil.

<http://www.ime.usp.br/~gelosp2013/>

**Conference in honor of Alan Weinstein.**

July 22- 26, 2013. EpFL, Lousanne, Switzerland.

<http://integrablesystems.epfl.ch/w-conference.php>

**Mathematical Approaches to Complex Fluids- a Two Week Summer School.**

July 22- August 2, 2013. Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.

<http://www.newton.ac.uk/programmes/CFM/cfmw02.shtml>

**Conference "Geometry and Dynamics".**

July 29- August 2, 2013. IMATE-UNAM Cuernavaca, Mexico.

<http://www.matcuer.unam.mx/eventos/gd2013/>

**1st Mathematical Congress of the Americas.**

August 5-9, 2013. Guanajuato, Mexico.

<http://www.mca2013.org/>

**12th International Workshop on Dynamical Systems and Applications.**

August 12-15, 2013. Ankara, Turkey.

<http://iwdsa2013.atilim.edu.tr/>

**18th International Summer School on Global Analysis and its Applications.**

August 12-17, 2013. Levoca, Slovakia..

<http://www.lepageri.eu/ga2013/>

**Mathematical General Relativity.**

August 19-December 20, 2013. Berkeley, California, USA.

<http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm8946>

**Optimal Transport: Geometry and Dynamics.**

August 19-December 20, 2013. Berkeley, CA, USA.

<http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm8952>

**GAP XI-Conference and Summer School: Higher Geometry and Quantum Field Theory. Séminaire itinérant “Géométrie et Physique”.**

August 19-23, 2013. Pittsburgh, USA.

<http://www.personal.psu.edu/yuv1/blogs/gap/>

**DGA 2013. Differential Geometry and its Applications.**

August 19-23, 2013. Brno. Czech Republic.

<https://inserv.math.muni.cz/dga2013/>

**Connections for Women on Optimal Transport: Geometry and Dynamics.**

August 22-23, 2013. Berkeley, California, USA.

<http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9225>

**14th International Pure Mathematics Conference 2013.**

August 23-25, 2013. Islamabad, Pakistan.

<http://www.pakms.org.pk/>

**Introductory Workshop on Optimal Transport: Geometry and Dynamics.**

August 26-30, 2013. Berkeley, California, USA.

<http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9226>

**International Conference on Mathematical Modeling in Physical Sciences, IC-MSQUARE.**

September 1-5, 2013. Prague, Czech Republic.

<http://www.icmsquare.net/>

**XXII International Fall Workshop on Geometry and Physics.**

September 2-5, 2013. Évora, Portugal.

**Deadline for reduced registration fee: June 30.**

**Registration deadline: July 31..**

<http://www.ifwgp2013.uevora.pt/>

**NOLCOS 2013.**

September 4-6, 2013. Toulouse, France.

<http://conf.laas.fr/NOLCOS2013/>

**Introductory Workshop: Mathematical General Relativity.**

September 9-13, 2013. Berkeley, California, USA.

<http://www.msri.org/workshops/691>

**Summer school on geometry of differential equations.**

September 9-13, 2013. Opava, Czech Republic.

[http://gdeq.org/The\\_2nd\\_summer\\_school\\_on\\_geometry\\_of\\_differential\\_equations](http://gdeq.org/The_2nd_summer_school_on_geometry_of_differential_equations)

**Advanced course on Geometry and Dynamics of Integrable Systems.**

September 9-14, 2013. Barcelona, Spain.

**Deadline for grant applications: June 24, 2013.**

**Deadline for registration: July 14, 2013.**

[http://www.crm.cat/en/Activities/Pages/ActivityFoldersAndPages/Curs\\$\\$\\$202013-2014/acintegrablesystems/acintegrablesystems.aspx](http://www.crm.cat/en/Activities/Pages/ActivityFoldersAndPages/Curs$$$202013-2014/acintegrablesystems/acintegrablesystems.aspx)

**The Sixth International Workshop on Differential Equations and Applications.**

September 11-14, 2013. Izmir, Turkey.

<http://dm.ieu.edu.tr/wdea2013/>

**Conference on integrability, topological obstructions to integrability and interplay with geometry.**

September 16-20, 2013. Barcelona, Spain.

**Deadline for grant applications: June 24, 2013.**

**Deadline for registration: July 14, 2013.**

[http://www.crm.cat/en/Activities/Pages/ActivityFoldersAndPages/Curs\\$\\$\\$202013-2014/Cintegrability/Cintegrability.aspx](http://www.crm.cat/en/Activities/Pages/ActivityFoldersAndPages/Curs$$$202013-2014/Cintegrability/Cintegrability.aspx)

**Young Researchers Conference Royal Spanish Mathematical Society.**

September 16-20, 2013. Sevilla, Spain.

<http://www.imus.us.es/2cji/?lang=eng>

**International conference “Kolmogorov readings - VI. General control problems and their applications” (GCP - 2013).**

October 7-11, 2013. Tambov, Russia.

<http://www.tambovopu2013.narod.ru>

**Differential Geometry and Global Analysis.**

October 7-11, 2013. Leipzig, Germany.  
<http://www.math.uni-leipzig.de/~rademacher/dgga13.html>

**Fluid Mechanics, Hamiltonian Dynamics, and Numerical Aspects of Optimal Transportation.**

October 14-18, 2013. Berkeley, California, USA.  
<http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9227>

**Qdays in Barcelona.**

October 16-18, 2013. Barcelona, Spain.  
[http://www.crm.cat/en/Activities/Pages/ActivityFoldersAndPages/Curs%\\$%\\$202013-2014/Qdays/QdaysinBarcelona.aspx](http://www.crm.cat/en/Activities/Pages/ActivityFoldersAndPages/Curs%$%$202013-2014/Qdays/QdaysinBarcelona.aspx)

**SIAM Conference on Geometric and Physical Modeling (GD/SPM13).**

November 11-14, 2013. Colorado, USA.  
<http://www.siam.org/meetings/gdspm13/>

**ICMAT Laboratory “Viktor Ginzburg”.**

November 11-15, 2013. Madrid, Spain.  
<http://www.icmat.es/severo-ochoa/Activities/ICMATLaboratories/Ginzburg/plannedactivities>

**MCT Mathematical Control.**

December 2-6, 2013. Trieste, Italy.  
**Deadline for registration: November 15, 2013.**  
<http://mct.lsis.org>

**International Conference on Recent Advances in Mathematics (ICRAM 2014).**

January 20-23, 2014.  
<http://www.icram2014.com/>

**Introductory Workshop: tropical geometry in its complex and symplectic aspects.**

January 20-24, 2014.  
<http://cib.epfl.ch/PublicEvent.php?event=1004>

**2014 American Control Conference.**

June 4-6, 2014. Portland, USA.  
<http://a2c2.org/conferences/acc2014/>

**Symplectic aspects of tropical geometry.**

June 16-20, 2014.  
<http://cib.epfl.ch/PublicEvent.php?event=1006>

**10th AIMS conference on Dynamical Systems, Differential Equations and Applications.**

July 7-11, 2014. Madrid, Spain.  
**Deadlines:**  
**Pre-registration: February 28, 2014.**  
**Abstracts: February 28, 2014.**  
**Travel grants (NSF): February 28, 2014**  
**Banquet ticket: June 20, 2014..**  
<http://www.aims.org/conferences/2014/index.html>

**10th International Conference on Clifford Algebras and their Applications in Mathematical Physics (ICCA10).**

August 4-9, 2014. Tartu, Estonia.  
<http://icca10.ut.ee/>

**ICM 2014.**

August 13-21, 2014. Seoul, Korea.  
<http://www.mathunion.org/imu-net/archive/2013/imu-net-057/>

**IHP Trimester. Geometry, Analysis and Dynamics on Sub-Riemannian Manifolds.**

September-December 2014, France.  
<http://www.cmap.polytechnique.fr/subriemannian/>

**Connections for Women: Differential Geometry Workshop.**

January 14-15, 2016. Berkeley, California, USA.  
<http://www.msri.org/workshops/702>

**7 European Congress of Mathematics.**

July 18-22, 2016. Berlin, Germany.  
<http://www.7ecm.de/>

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