



## Geometry, Mechanics and Control Network Infosheet

January 2012

Editors: María Barbero and Silvia Vilariño

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ECCI Graduate School on Control Program is available now.

Focus Program on Geometry, Mechanics and Dynamics, the Legacy of Jerry Marsden. July 2012.

CDC 2012 (Deadline March 1, 2012), Poisson 2012.

# GMC Network Infosheet

January 2012

## NETWORK'S ACTIVITIES

### XIV Winter Meeting on Geometry, Mechanics and Control Theory.

Zaragoza, Spain.

February 6-7, 2012.

<http://andres.unizar.es/~ei/2012/index.html>

### Thematic day on Poisson Geometry and Applications.

Zaragoza, Spain.

February 8, 2012.

**Speakers:** J. F. Cariñena, J.C. Marrero, E. Miranda, J. Nunes da Costa, M. Zambón.

<http://andres.unizar.es/~ei/2012/indexJ.html>

### Exploratory workshop on geometric control theory and applications to engineering (Part II).

ICMAT, Madrid, Spain.

February 20-24, 2012 (to be determined).

**Speakers:** Sina Ober-Blöbaum (University of Paderborn, Germany), Cédric M. Campos (University of Bayreuth), M. Kobilarov (Caltech, USA)...

If you would like to receive more information, please contact David Martín de Diego ([david.martin@icmat.es](mailto:david.martin@icmat.es)).

### VI International Summer School on Geometry, Mechanics and Control.

La Cristalera, Miraflores de La Sierra, Spain.

June 22-27, 2012.

### Third Iberoamerican Meeting on Geometry, Mechanics and Control.

Salamanca, Spain.

September 3-7, 2012.

<http://fundacion.usal.es/3imgmc/>

## JOB OFFERS, FELLOWSHIPS AND AWARDS

### Ph D offers

#### Open Call: ICMAT PreDoc 2012.

The Instituto de Ciencias Matemáticas (ICMAT-Institute of Mathematical Sciences) offers appointments to both Spanish and foreign students who wish to study for their doctorate at the ICMAT under the supervision of one of its members.

These appointments are aimed at university students in their final year who have recently completed their degree in mathematics or an allied area. The contracts will be for a four-year period and consist of the same financial conditions as those offered by the Spanish Government for a similar purpose.

More information:

[http://www.icmat.es/severo-ochoa/HumanResources/ICMat\\_Predoc](http://www.icmat.es/severo-ochoa/HumanResources/ICMat_Predoc)

#### PhD positions in Mathematics at UC3M.

Department of Mathematics.

Universidad Carlos III de Madrid, Spain.

**Pre-application deadline: January 31, 2012.**

<http://matematicas.uc3m.es/images/dpto-docs/phdpostdocpositionsuc3m.pdf>

#### Ph.D. Studentships in Theoretical/Mathematical Physics.

Department of Mathematics.

University of Surrey, UK.

**Closing date: January 31, 2012.**

<http://www.jobs.ac.uk/job/ADS984/>

**Several PhD Fellowships (Stochastic, Mathematical Physics, Mathematical Economics)**

International Graduate College "Stochastic and Real World Models"

Bielefeld University, Germany.

Closing date: January 31, 2012.

<http://www.math-jobs.com/j.php?i=150>

**Postgraduate studentship: Solvers for optimal control of time-dependent PDEs.**

Oxford Centre for Collaborative Applied Mathematics (OCCAM).

Closing date: February 9, 2012.

<https://www.maths.ox.ac.uk/node/17166>

**Doctoral Position in Geometry and Simulation.**

Computational Science Center.

University of Vienna, Austria.

Closing date: February 29, 2012.

<http://www.math-jobs.com/j.php?i=1676>

**PhD Studentship in Theoretical/Mathematical Physics.**

Faculty of Engineering and Physical Sciences.

University of Surrey, England, UK.

Closing date: March 31, 2012.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=35162&LID=1482>

**OCCAM Visiting Doctoral Studentship.**

Mathematics Institute in Oxford University, UK.

Closing date: May 14, September 14, 2012.

[https://www.maths.ox.ac.uk/system/files/attachments/OVS\\_OVP\\_Nov\\_2011.pdf](https://www.maths.ox.ac.uk/system/files/attachments/OVS_OVP_Nov_2011.pdf)

**PhD Position in Mathematics Inspired by String Theory and QFT.**

University of Hamburg, Germany.

Closing date: December 31, 2012.

<http://www.euro-math-soc.eu/node/2396>

**PhD Student and Research Fellowships.**

The International Mathematical Union, the Einstein Foundation Berlin and the Berlin Mathematical School invite applications from PhD 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).

Applications must be received at least six months before the desired starting date.

More information:

<http://www.math-berlin.de/efp/fellowships.html>

**Positions for two Marie\_Curie PhD students. Integrating Numerical Simulation and Geometric Design Technology.**

Institute of Applied Geometry.

Johannes Kepler University, Linz, Austria.

<http://www.ag.jku.at/>

**6 PhD Positions - Mathematics Inspired by String Theory and QFT.**

Department of Mathematics and Physics.

University of Hamburg, Germany.

Closing date: Open until filled.

<http://www.math-jobs.com/j.php?i=903>

**PhD Research Project: Thermomechanical Constraints in the Plate Theory of Classical and Generalized Thermoelasticity.**

School of Mathematics.

University of East Anglia, Norwich, Norfolk, UK.

Closing date: Applications accepted all year round.

<http://www.findaphd.com/search/ProjectDetails.aspx?PJID=35176&LID=437>

**PhD 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>

**PhD Research Project - Classical and Quantum Integrability.**

Department of Applied Mathematics.

University of Leeds, UK.

Closing date: applications accepted all year round.

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

**PhD 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>

**PhD 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>

**PhD 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>

**PhD Research Project - Integrable Difference Equations (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=19071&LID=754>

## PhD Studentship – Distributed Control of Networked Systems and its Applications.

Division of Materials, Mechanics & Structures.  
Faculty of Engineering.

University of Nottingham, UK.

Closing date: Open until filled.

<http://www.jobs.ac.uk/job/ADR246>

## Postdoctoral fellowships

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### Open call: ICMAT PostDoc 2012.

The *Instituto de Ciencias Matemáticas* (ICMAT- Institute of Mathematical Sciences) offers postdoctoral appointments for Researchers in Mathematics possessing an excellent curriculum who wish to pursue their research career at the ICMAT.

The contracts, which last for a year and are renewable, include financial conditions competitive with those in similar European programs.

More information:

[http://www.icmat.es/severo-ocha/HumanResources/ICMAT\\_Postdoc](http://www.icmat.es/severo-ocha/HumanResources/ICMAT_Postdoc)

### 2 PostDoc Positions in the research group "Geometric Analysis in the Applied Sciences".

Max-Planck- Institute for Mathematics in the Sciences, Leipzig, Germany.

Closing date: January 31, 2012.

<http://www.math-jobs.com/j.php?i=294>

### Post-Doc in Mathematics.

Mathematics Research Unit.

Faculty of Science, Technology and Communication.

University of Luxembourg, Luxembourg.

Closing date: January 31, 2012.

<http://recruitment.uni.lu/en/details.html?id=QMUFK026203F3VBQB7V7VV4S8&nPostingID=268&nPostingTargetID=268&mask=karriereseiten&lg=UK>

### PostDoc positions in Mathematics at UC3M.

Department of Mathematics.

Universidad Carlos III de Madrid, Spain.

Pre-application deadline: January 31, 2012.

<http://matematicas.uc3m.es/images/dpto-docs/phdpostdocpositionsuc3m.pdf>

### Pegasus Fellowships in Flanders.

The Research Foundation - Flanders has launched a new research program under the name 'Pegasus Marie Curie Fellowships' (see [here](#)). Its goal is to provide non-Belgian postdoctoral researchers the opportunity to spend either 1 or 3 postdoc years at a Flemish University (salary + research budget included). In the first round of applications (deadline of February 1, 2012) there are 30 long and 10 short positions available. One possible host is the [Research Group on Differential Geometry and Mechanics](#) within the Department of Mathematics at [Ghent University](#). Interested candidates are kindly requested to contact either Frans Cantrijn ([frans.cantrijn@ugent.be](mailto:frans.cantrijn@ugent.be)) or Tom Mestdag ([tom.mestdag@ugent.be](mailto:tom.mestdag@ugent.be)) with a short research proposal.

### Postdoctoral Research Fellow in String Theory.

Department of Mathematics.

University of Surrey, UK.

Closing date: February 2, 2012.

<http://www.jobs.ac.uk/job/ADV293/>

### IMUS International Call.

The Institute of Mathematics of the University of Sevilla (IMUS) is seeking for applications for postdoctoral contracts and grants and sabbatical stays hosted by one of its research teams, starting from January 1 2013, from 6 months to 3 years.

Closing date: February 15, 2012.

More information:

<http://www.imus.us.es/images/stories/noticias/2012/IMUS-international-call.pdf>

### PostDoc in Geometry and Simulation.

Computational Science Center.

University of Vienna, Austria.

Closing date: February 29, 2012.

<http://www.math-jobs.com/j.php?i=1677>

### Weierstrass Postdoctoral Fellowships Program.

The Weierstrass Institute for Applied Analysis and Stochastics (WIAS) offers postgraduate fellowships for 2011/2012. Their duration is 6 or 12 months. These fellowships are designed to enable highly-qualified young scientists to participate in the research into the mathematical problems in fields such as "Optimization and control of technological processes", thus furthering their education and training.

Closing date: February 29, 2012 and August 31, 2012.

More information:

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

### Postdoc Position Ricam Linz.

Johann Radon Institute for Computational and Applied Mathematics (RICAM).

Austrian Academy of Sciences, Linz, Austria.

Closing date: March 1, 2012.

<http://www.euro-math-soc.eu/node/2435>

### Research Associate in Pure Mathematics.

School of Mathematics.

University of Bristol, UK.

Closing date: March 30, 2012 (9:00 am).

<http://www.jobs.ac.uk/job/ADU392/>

### Grants for postdoctoral studies in Life and Matter Sciences in foreign universities and research centers. Fundación Ramón Areces.

Applications deadline: March 30, 2011.

<http://www.fundacionareces.es/fundacionareces/cargarAplicacionAgendaEventos.do?idTipoEvento=3&identificador=1361&nivelAgenda=2>

### Grants for short postdoctoral research visits at IMUS. Call for 2012 applications.

Instituto de Matemáticas, University of 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. In this edition, the stays will have a minimum consecutive duration of 1 month and maximum of 2 months. The stays will take place between January 1<sup>st</sup>, 2012 and July 31<sup>st</sup>, 2013.

**Closing date: July 31, 2012.**

<http://www.imus.us.es/images/stories/noticias/2012/estancias-IMUS-2012-en.pdf>

**OCCAM Postdoctoral Research Assistants.**  
Mathematics Institute in Oxford University, UK.

**Closing date: January 14, May 14 and September 14, 2012.**

[https://www.maths.ox.ac.uk/system/files/attachments/OVS\\_OVP\\_Nov\\_2011.pdf](https://www.maths.ox.ac.uk/system/files/attachments/OVS_OVP_Nov_2011.pdf)

**Postdoc Position at LAAS-CNRS, Univ. Toulouse, France.**

We are seeking candidates for a one-year post-doctoral position at LAAS-CNRS, University of Toulouse, France, within an ongoing project focusing on semidefinite programming and algebraic geometry for polynomial optimal control. The project may focus on software implementation (under our existing Matlab Toolbox GloptiPoly for solving generalized problems of moments), transfer of knowledge to the French aerospace industry (contracts with EADS Astrium and the French space agency CNES), or more fundamental research activities covering real algebraic geometry (polynomial equations and inequalities), functional analysis (theory of moments), mathematical programming (convex optimization over the cone of positive semidefinite matrices), and nonlinear

dynamical systems control. A strong background in Applied mathematics is required. Some knowledge of systems control is welcome.

Interested candidates please send your detailed curriculum vitae to Didier Henrion, <http://homepages.laas.fr/henrion>

More information:

[http://homepages.laas.fr/henrion/#\\_blank](http://homepages.laas.fr/henrion/#_blank)

**Postdoctoral Researchers: Mathematics / Applied Mathematics and Computer / Information Sciences**

Geometric Modelling and Scientific Visualization.  
King Abdullah University of Science and Technology.  
Thuwal, Jeddah, Saudi Arabia.

**Closing date: Open until filled.**

[http://sciences.academickeys.com/seeker\\_job\\_display.php?dothis=display&job\[IDX\]=33513-SC111116b-6e&oid=798206](http://sciences.academickeys.com/seeker_job_display.php?dothis=display&job[IDX]=33513-SC111116b-6e&oid=798206)

**Postdoctoral Position: Computational Mathematics.**

Interdisciplinary Research Institute for the Sciences.  
California State University, Northridge, USA.

**Closing date: Open until filled.**

[http://sciences.academickeys.com/seeker\\_job\\_display.php?dothis=display&job\[IDX\]=33561-SC111116b-4e&oid=798206](http://sciences.academickeys.com/seeker_job_display.php?dothis=display&job[IDX]=33561-SC111116b-4e&oid=798206)

**Marie-Curie Postdoc position. Integrating Numerical Simulation and Geometric Design Technology.**

Institute of Applied Geometry.  
Johannes Kepler University, Linz, Austria.  
<http://www.ag.jku.at/>

### ***Offers for visiting and senior researcher***

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**Professor in Pure Mathematics.**

University of Southampton, Southampton, England, UK.

**Closing date: January 30, 2012.**

<http://www.jobs.ac.uk/job/ADU897/>

**Tenure-track Position in Applied Mathematics.**

American University, Washington, DC, USA.

**Closing date: January 31, 2012.**

<http://www.mathjobs.org/jobs/AU/3078>

**Lecturer in Mathematics.**

Mathematics and Physics Centre.  
Xi'an Jiaotong-Liverpool University, China.

**Closing date: January 31, 2012.**

<http://www.math-jobs.com/j.php?i=520>

**Lecturer/Associate Professor in Mathematics.**

Mathematics and Physics Centre.  
Xi'an Jiaotong-Liverpool University, China.

**Closing date: January 31, 2012.**

<http://www.jobs.ac.uk/job/ADQ619/lecturer-associate-professor/>

**Senior Lecturer/Lecturer in Applied Mathematics.**

School of Computing, Engineering and Information

Sciences.

Northumbria University, Newcastle upon Tyne, England, UK.

**Closing date: January 31, 2012.**

<http://www.jobs.ac.uk/job/ADS924/senior-lecturer-lecturer-in-applied-mathematics/>

**Tenure or Tenure-Track Faculty in Mathematics.**

Departamento de Matemáticas.  
Universidad Nacional de Colombia.

**Closing date: February 1, 2012.**

<http://www.math-jobs.com/j.php?i=1053>

**Professor in Pure Mathematics.**

Department of Mathematics.  
University of Warwick, UK.

**Closing date: February 3, 2012 (midnight British time).**

<http://www.jobs.ac.uk/job/ADR556/professor-in-pure-mathematics/>

<http://www.math-jobs.com/j.php?i=911>

**Lecturer in Mathematics.**

Department of Mathematics and Statistics.  
University of Canterbury, New Zealand.

**Closing date: February 7, 2012 (NZ date)**

<http://www.jobs.ac.uk/job/ADP168/>

### **5 year Lecturer position in Mathematics.**

School of Mathematical Sciences.

University College Dublin, Ireland.

**Closing date: February 10, 2012.**

<http://www.euro-math-soc.eu/node/2438>

### **Assistant Professor (Lecturer) in Applied Mathematics (2 Posts).**

University of Nottingham Ningbo China, China.

**Closing date: February 17, 2012.**

[http://sciences.academickeys.com/seeker\\_job\\_display.php?dothis=display&job\[IDX\]=34661-SC111222b-4e&oid=798206](http://sciences.academickeys.com/seeker_job_display.php?dothis=display&job[IDX]=34661-SC111222b-4e&oid=798206)

### **Associate/Assistant Professor Position in several areas (dynamical systems, geometry, discrete mathematics...)**

DTU Mathematics.

Technical University of Denmark, Lyngby, Copenhagen, Denmark.

**Closing date: February 24, 2012.**

<http://www.jobs.ac.uk/job/ADT346/>

### **Professor of Mathematics (Area: Geometry).**

Faculty of Science, Technology and Communication.

University of Luxembourg. Luxembourg.

**Closing date: February 24, 2012.**

<http://www.math-jobs.com/j.php?i=1090>

<http://www.wen.uni.lu/university/jobs/fstc/enseignants>

### **Open academic position in Algebra and Geometry.**

Department of Mathematics.

Université Libre de Bruxelles, Belgium.

**Closing date: March 1, 2012.**

<http://www.euro-math-soc.eu/node/2431>

### **OCCAM Visiting Fellowships (OVF)**

Visiting positions are available for established researchers in Applied and Computational Mathematics for Visiting Fellowships at the Oxford Centre for Collaborative Applied Mathematics (OCCAM). OVFs will be expected to collaborate with OCCAM's research teams and be actively involved in OCCAM's existing research projects, but they will also have freedom to pursue other lines of research. OVFs will hold a senior academic position in another higher education institution and will have research interests that are compatible with OCCAM's extended faculty.

**Applications deadline: March 15 and October 1, 2012.**

[https://www.maths.ox.ac.uk/system/files/attachments/OCCAM-Visiting-Fellowships\\_Nov\\_2011.pdf](https://www.maths.ox.ac.uk/system/files/attachments/OCCAM-Visiting-Fellowships_Nov_2011.pdf)

### **3 Assistant Professors in Mathematics.**

Departamento de Matemáticas.

Pontificia Universidad Católica de Chile, Chile.

**Closing date: June 30, 2012.**

<http://www.math-jobs.com/j.php?i=1052>

### **Assistant Professor of Mathematics.**

Division of Mathematics, Engineering and Computer Science.

Loras College; Dubeque; IA, USA.

**Closing date: Open until filled.**

<http://www.math-jobs.com/j.php?i=207>

### **Tenured track Assistant Professor of Mathematics.**

Department of Mathematics.

Syracuse University, Syracuse, New York, USA.

**Closing date: open until filled.**

<http://eims.ams.org/jobs#/detail/4523254>

### **Visiting Research at IMI. Call 2011.**

Instituto de Matemática Interdisciplinar.

Universidad Complutense de Madrid, Spain.

This call aims to enhance cooperation between IMI researchers and high level researchers and promising young students carrying out their activity in other scientific institutions, in Spain or abroad. During their stays, visitors will collaborate with host IMI Program activities. The following modalities will be considered:

- a) Senior Visiting Researchers
- b) Postdoctoral stays
- c) Predoc Internships
- d) Exploratory meetings

**The call will be open permanently. Evaluation and awarding is expected to be made on a monthly basis.**

More information:

[http://www.mat.ucm.es/IMI/ProgramaVisitantesIMI2011/Call\\_IMIVisitingResearchers\\_2011.pdf](http://www.mat.ucm.es/IMI/ProgramaVisitantesIMI2011/Call_IMIVisitingResearchers_2011.pdf)

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

#### **Fondazione Bruno Kessler.**

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.

<http://cirm.fbk.eu/en/Visiting+Professors>

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

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.

<http://cirm.fbk.eu/en/node/122>

### **Faculty Position – Mathematics.**

Department of Mathematics.

Milwaukee School of Engineering

Milwaukee, WI, USA.

Closing date: Fall 2012.

[http://sciences.academickeys.com/seeker\\_job\\_display.php?dothis=display&job\[IDX\]=32603-SC111024b-8e&oid=798206](http://sciences.academickeys.com/seeker_job_display.php?dothis=display&job[IDX]=32603-SC111024b-8e&oid=798206)

### Visiting the ICMAT.

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), generally 2 months before the start of the desired stay.

More Information:

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

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## Awards

### "Ciencia en Acción" Competition

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

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## Financial support for research projects and conferences

### ERC Synergy Grants

The European Research Council ERC has launched a new type of granting scheme that will fund small excellent research teams. ERC Synergy Grants are intended to enable a small group of Principal Investigators and their teams to bring together complementary skills, knowledge, and resources in new ways, in order to jointly address research problems.

ERC Synergy Grants can amount up to 15 million Euros per grant; each grant for up to 6 years.

Deadline for applications: January 25, 2012 (17:00 Brussels local time)

<http://erc.europa.eu/funding-schemes/synergy-grants>  
<http://ec.europa.eu/research/participants/portal/page/ideas?callIdentifier=ERC-2012-SyG>

### Non-guided fundamental research project.

Spanish National Programme for Fundamental Research Projects.

Deadline: February 7, 2012.

<http://www.micinn.es/portal/site/MICINN/menuitem.dbc68b34d11ccb5d52ffeb801432ea0/?vgnnextoid=b97678b705e94310VgnVCM1000001d04140aRCRD>

### ICTP Call for Proposals for Mathematics Schools, Conferences.

The Abdus Salam International Centre for Theoretical Physics has announced a call for proposals for its

2013 Scientific Calendar. Call includes a new collaboration with ESF in Geometry and Dynamics.

Deadline: February 15, 2012.

<http://www.ictp.it/news/math-call-proposals.aspx>

### ERC Advanced Investigators Grant.

Deadline (for subcall: Physical Sciences & Engineering): February 16, 2012 (17:00 Brussels local time).

[http://ec.europa.eu/research/participants/portal/page/ideas?callIdentifier=ERC-2012-ADG\\_20120216](http://ec.europa.eu/research/participants/portal/page/ideas?callIdentifier=ERC-2012-ADG_20120216)

### Marie Curie Career Integration Grants (CIG)

Deadlines (at 17:00 Brussels time):

- March 6, 2012.

- September 18, 2012.

<http://ec.europa.eu/research/participants/portal/page/people?callIdentifier=FP7-PEOPLE-2012-CIG>

### 2014 CIMPA research schools call for projects.

The call of proposal for 2014 will begin in March 2012. 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=en> and the [Road map](#)

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## INTERESTING NEWS AND PUBLICATIONS

**Request of opinion from the mathematical community** on a report on ranking methods for mathematical journals, prepared by a joint working group created by the IMU and ICIAM:

[http://blog.mathunion.org/fileadmin/IMU/Report/WG\\_JRP\\_Report\\_01.pdf](http://blog.mathunion.org/fileadmin/IMU/Report/WG_JRP_Report_01.pdf)

<http://www.mathunion.org/imu-net/archive/2011/imu-net49b/>

### International Mathematical Union Newsletter.

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

### The IRSES Network 'GEOMECH'.

GEOMECH is an IRSES network sponsored within the 7th EU Framework Program and is coordinated by Ghent University. It includes partners from Argentina, Belgium, Czech Republic, Japan, Spain and the USA and it aims to facilitate research exchange visits between these partners. More information on the network can be found on the website <http://www.geomechnetwork.ugent.be/> the website will also serve as the forum where the network's activities and outcomes will be disseminated.

## Journal of Geometric Mechanics (JGM)

Volume: 3, Number: 3, September 2011.

<http://aimsciences.org/journals/contentsListnew.jsp>

## Matemáticas y sus fronteras

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

Those interested in publishing something, contact with

Manuel de León [mdeleon.dos@gmail.com](mailto:mdeleon.dos@gmail.com)

## Mathematics in Europe

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

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

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

**Professional network for scientists.**

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

## Network's members preprints and papers

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M. Gadella, J. Negro, G.P. Pronko, M. Santander: Spectrum generating algebra for the continuous spectrum of a free particle in Lobachevski space.

[arXiv:1201.2820v1](http://arxiv.org/abs/1201.2820v1) [math-ph]

P. D. Prieto-Martínez, N. Román-Roy: Variational principles for higher-order dynamical systems.

[arXiv:1201.4102v1](http://arxiv.org/abs/1201.4102v1) [math-ph]

## Network's collaborators preprints and papers

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H. Bursztyn. A brief introduction to Dirac manifolds

[arXiv:1112.5037v1](http://arxiv.org/abs/1112.5037v1) [math.DG]

H. Bursztyn, A. Cabrera. Symmetries and reduction of multiplicative 2-forms

[arXiv:1112.5034v1](http://arxiv.org/abs/1112.5034v1) [math.SG]

F. Gay-Balmaz, D. D. Holm, D. M. Meier, T. S. Ratiu, F.-X. Vialard: Invariant higher-order variational problems II.

[arXiv:1112.6380v1](http://arxiv.org/abs/1112.6380v1) [math.OC]

## OTHER CONFERENCES

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### Special Year on Symplectic Dynamics.

October 10, 2011-March 2012, Institute for Advanced Study, Princeton, USA.

<http://www.math.ias.edu/sp/symplectic-dynamics>

### Recent trends in nonlinear science.

January 23-27, 2012. Pamplona, Spain.

<http://www.dance-net.org/rtns2012/>

### XII Winter Diffiety School.

January 30-February 12, 2012. Gdynia, Poland.

[http://www.levi-](http://www.levi-civita.org/Activities/DiffietySchools/XIIWDS)

[civita.org/Activities/DiffietySchools/XIIWDS](http://www.levi-civita.org/Activities/DiffietySchools/XIIWDS)

### ECCI Graduate School on Control

February-May 2012. France, Turkey and Italy.

**Deadline for advanced registration was Dec. 16, 2011.**

<http://www.eeci-institute.eu/GSC2012>

### 2nd International Conference on Advances in Control and Optimization of Dynamical Systems.

February 16-18, 2012. Bangalore, India.

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

### Nonlocal PDEs, Variational Problems and their Applications.

February 27-March 2, 2012. Los Angeles, CA, USA.

<http://www.ipam.ucla.edu/programs/pde2012/>

### Isogeometric Analysis and Applications Workshop (IGAA 2012).

March 12-16, 2012. Linz, Austria.

**Deadline for abstract submission: Jan. 15, 2012.**

<http://www.ag.jku.at/2012igaa/>

### SIAM Conference on Uncertainty Quantification.

April 2-4, 2012.

Raleigh, North Carolina, USA.

<http://www.siam.org/meetings/uq12/>

### Advances in Scientific Computing, Imaging Science and Optimization: Stan Osher's 70th Birthday Conference.

April 4-6, 2012.

Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California, USA.

<http://www.ipam.ucla.edu/programs/sjo2012/>

### Generalized Solutions of Evolution Equations: Theory, Numerical Approximation, and Applications.

April 12-14, 2012.

Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany.

**Deadline for abstract submission: Feb. 27, 2012.**

**Deadline for registration: March 19, 2012.**

<http://www.mis.mpg.de/scicomp/gsee/>

### Great Lakes Geometry Conference 2012.

April 14-15, 2012.

Ohio State University, Columbus, OH, USA.

[http://www.math.osu.edu/~tseng.109/glgc12\\_main.htm](http://www.math.osu.edu/~tseng.109/glgc12_main.html)

### Fourth Discrete Geometry and Algebraic Combinatorics Conference.

April 18-21, 2012.

South Padre Island, Texas, USA.

<http://blue.utb.edu/dg2012/>

**Variational Analysis and Its Applications.**

April 22-28, 2012.

Paseky nad Jizerou, Czech Republic.

<http://www.karlin.mff.cuni.cz/katedry/kma/ss/apr12/>

**Symmetries of Differential Equations: Frames, Invariants and Applications. A conference in honor of the 60th birthday of Peter Olver.**

May 17-19, 2012. Minneapolis, Minnesota, USA.

<http://math.umn.edu/conferences/olver/>

**AIM Workshop: Contact topology in higher dimensions.**

May 21-25, 2012. Palo Alto, California, USA.

<http://www.aimath.org/ARCC/workshops/contacttop.html>

**10<sup>th</sup> Workshop on interactions between dynamical systems and partial differential equations.**

May 28-June 1, 2012, Barcelona, Spain.

<http://www.ma1.upc.edu/recerca/seminaris/JISD2012/indexjisd2012.html>

**12th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics.**

May 30-June 2, 2012. Vienna, Austria.

Deadline submission of abstracts: Feb 17, 2012.

<http://orcos.tuwien.ac.at/events/ocdgn2012/#c29435>

**EUROMECH Colloquium 535 Similarity and symmetry methods in Solid Mechanics.**

June 6-9, 2012. Varna, Bulgaria.

[http://www.ams.org/meetings/calendar/2012\\_jun6-9\\_varna.html](http://www.ams.org/meetings/calendar/2012_jun6-9_varna.html)

**Quantum invariants of 3-manifolds.**

June 7-9, 2012. University of Strasbourg, France.

<http://www-irma.u-strasbg.fr/article1172.html>

**XIVth International Conference on Geometry, Integrability and Quantization.**

June 8-13, 2012. Near Varna, Bulgaria.

<http://www.bio21.bas.bg/conference/>

**Fourth Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences.**

June 11-16, 2012. Varna, Bulgaria.

Deadline for submitting abstracts: March 31, 2012.

<http://2012.eac4amitans.eu/>

**Summer@ICERM: Geometry and Dynamics.**

June 18 – August 10, 2012. Providence, Rhode Island, USA.

<http://icerm.brown.edu/summerug>

**5th Podlasie Conference on Mathematics.**

June 25-28, 2012. Bialystok, Poland.

Deadline for contributed sessions: April 1, 2012.

Deadline for abstracts: May 1, 2012.

<http://katmat.pb.bialystok.pl/pcm12/>

**American Control Conference.**

June 27-29, 2012. Montréal, Québec, Canada.

<http://a2c2.org/conferences/acc2012/index.php>

**Focus Program on Geometry, Mechanics and Dynamics, the Legacy of Jerry Marsden.**

July 2012. Fields Institute, Toronto, Canada.

<http://www.fields.utoronto.ca/programs/scientific/12-13/Marsden/index.html>

**The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications.**

July 1-5, 2012, Orlando, Florida, USA.

<http://aimsciences.org/conferences/2012/index.html>

As in the previous edition there will be a special session on Geometric Mechanics, organized by Frans Cantrijn, Manuel de Leon and Tom Mestdag. This session has a double goal: to promote the AIMS [Journal of Geometric Mechanics](#) by bringing together excellent researchers in the field and to provide a scientific platform for the international partners within the 'Geometric Mechanics' network (a network within Marie Curie's International Research Staff Exchange Scheme (IRSES) in the 7th European Framework Program). Anyone interested in participating in the session is cordially invited to register and to submit an abstract to session ss24 at the [webpage](#) of the conference, before March 15, 2012.

**Workshop on geometric structures on manifolds and their applications.**

July 1-7, 2012. Near Marburg, Germany.

Deadline for early registration: April 1, 2012.

<http://www.mathematik.uni-marburg.de/~agricola/rauisch2012/>

**Workshop Periods and Motives. A modern perspective on renormalization.**

July 2-6, 2012. ICMAT, Madrid, Spain.

<http://www.icmat.es/congresos/periods-and-motives/>

**Mathematical Structures in Quantum Systems and applications.**

July 2-8, 2012, Benasque, Huesca, Spain.

<http://benasque.org/general/cgi-bin/years.pl?ano=2012>

**6th European Congress of Mathematics.**

July, 2-7, 2012. Krakow. Poland

<http://www.6ecm.pl/en/home>

**2nd International Conference on Mathematical Applications in Engineering 2012.**

July 3-5, 2012, Kuala Lumpur, Malaysia.

<http://www.iium.edu.my/icmae/12/>

**20th Mediterranean conference on control and automation.**

July 3-6, 2012. Barcelona, Spain.

Deadline for invited session proposal: Jan 9, 2012.

Deadline for contributed papers: Jan 16, 2012.

<http://med12.esaii.upc.edu/>



**The 2012 International Conference of Applied and Engineering Mathematics.**

July 4-6, 2012. Imperial College London, UK.

Deadline for draft paper submission: March 6, 2012.

<http://www.iaeng.org/WCE2012/ICAEM2012.html>

**20th International Symposium on Mathematical Theory of Networks and Systems.**

July 9-13, 2012. Melbourne, Australia.

Deadline for submissions: Feb. 1, 2012.

<http://www.mtns2012.com.au/>

**EVEQ 2012: International Summer School on Evolution Equations.**

July 9-13, 2012. Prague, Czech Republic.

<http://www.karlin.mff.cuni.cz/~prusv/ncmm/conference/eveq2012/info.html>

**Mathematical General Relativity.**

July 9-20, 2012. Berkeley, California, USA.

<http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9228>

**3Quantum: Algebra, Geometry, Information.**

July 10-14, 2012. Tallinn, Estonia.

<http://www.agmp.eu/qqq/>

**Poisson 2012.**

Summer School: July 23-27, 2012.

Conference: July 30-August 3, 2012.

Utrecht, The Netherlands.

Deadline for financial support: May 14, 2012.

Deadline for registration: June 15, 2012.

<http://www.projects.science.uu.nl/poisson2012/>

**The 24th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC.12).**

July 30-August 3, 2012. Nagoya, Japan.

<http://www.math.nagoya-u.ac.jp/fpsac12/>

**Variational Methods for Evolving Objects.**

July 30 – August 3, 2012. Sapporo, Japan.

[http://www.math.sci.hokudai.ac.jp/sympo/120730/index\\_en.html](http://www.math.sci.hokudai.ac.jp/sympo/120730/index_en.html)

**XVII International Congress on Mathematical Physics.**

August 6-11, 2012. Aalborg, Denmark.

Deadline for contributed talks and posters: March 15, 2012.

<http://www.icmp12.com/>

**17<sup>th</sup> International Summer School on Global Analysis and its Applications.**

August 17-22, 2012. Levoca, Slovakia.

For more information contact:

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**Spectral Theory and Differential Equations.**

August 20-24, 2012. Kharkiv, Ukraine.

<http://www.ilt.kharkov.ua/Marchenko2012/>

**4th IFAC workshop on Lagrangian and Hamiltonian methods for nonlinear control.**

August 29-31, 2012. Bertinoro, Italy.

Deadline for draft submission: March 15, 2012.

[www.lhmlc12.deis.unibo.it](http://www.lhmlc12.deis.unibo.it)

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

August 30-September 1, 2012. Burgos, Spain.

**International Conference on Differential-Difference Equations and Special Functions.**

September 3-7, 2012. Patras, Greece

<http://www.icddesf.upatras.gr/>

**1st International Eurasian Conference on Mathematical Sciences and Applications (ICEMSA).**

September 3-7, 2012. Prishtine, Kosovo.

<http://www.iecmsa.org/en/>

**15th IFAC conference on Control Applications of Optimization.**

September 13-16, 2012. Rimini, Italy.

<http://cao2012.imm.uran.ru/>

**New trends in Dynamical Systems.**

October 1-5, 2012. Salou, Catalonia, Spain.

<http://www.gsd.uab.cat/ntds2012/index.php>

**2012 IEEE Multi-conference on systems and control.**

October 3-5, 2012. Dubrovnik, Croatia.

Deadline for contributions: Feb. 10, 2012.

<http://www.msc2012.org/>

**15th Latin American Control Conference.**

October 23-26, 2012. Lima, Peru.

Deadline for draft paper submission: May 15, 2012.

<http://congreso.pucp.edu.pe/clca-2012/>

**51th IEEE Conference on Decision and Control.**

December 10-13, 2012. Maui, Hawaii, USA.

Deadline for proposals/submissions: March 1, 2012.

<http://control.disp.uniroma2.it/cdc2012/>

**International Conference on the Theory, Methods and Applications of Nonlinear Equations.**

December 17-21, 2012. Kingsville, Texas, USA.

[http://www.tamuk.edu/artsci/math/conference\\_2012/about.html](http://www.tamuk.edu/artsci/math/conference_2012/about.html)

**Interactions Between Analysis and Geometry.**

March 11-14, 2013. Los Angeles, California, USA.

<http://www.ipam.ucla.edu/programs/iag2013/>

**SIAM Conference on Applications of Dynamical Systems.**

May 19-23, 2013. Snowbird, Utah, USA.

<http://www.siam.org/meetings/ds13/>

**American Control Conference.**

June 17-19, 2013. Washington, DC, USA.

Deadline for submitting draft manuscripts: Sept.17, 2012.

<http://a2c2.org/conferences/acc2013/>

**European Control Conference.**

July 17-19, 2013. Zurich, Switzerland.

Deadline for proposals: Sept. 2012.

[www.ecc13.ch](http://www.ecc13.ch)

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

August 5-9, 2013. Guanajuato, Mexico.

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

**NOLCOS 2013.**

Sept. 4-6, 2013. Toulouse, France.

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

**Optimal Transport: Geometry and Dynamics.**

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

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

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