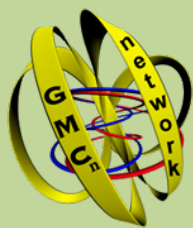


GMC Network Infosheet

December 2014



Geometry, Mechanics and Control Network Infosheet

December 2014

Editors: Javier de Lucas, Pedro
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Vilariño

CONTENTS

Network's activities
9th IYRGM
XVII Winter Meeting on GMC
Job offers, fellowships and awards
Ph.D. Offers ... 1
Postdoctoral offers ... 2
Offers for senior researchers ... 2
Visiting researchers ... 3
Awards ... 4
Financial support for research projects and conferences ... 5
Interesting news and publications
Network's members 6 and collaborators 6 preprints and papers
Other conferences

Network's activities

9th International Young Researchers Workshop on Geometry, Mechanics and Control.

University of Zaragoza, January 19–21, 2015.

Speakers:

- R. GHEZZI (University of Burgundy, Dijon, France). “Geometry and Analysis on Almost-Riemannian Manifolds”.
- T. MESTDAG (Ghent University, Belgium). “The inverse problem of the calculus of variations”.
- D. MARTÍNEZ TORRES (PUC-Rio, Brazil). “Geometry and topology of coadjoint orbits.”.

Deadline: Poster/Short Talks: Closed. Registration: January 4, 2015.

<http://gmcnet.webs.u11.es/?q=activity-detail1/1284>

XVII Winter Meeting on Geometry, Mechanics and Control Theory.

University of Zaragoza, January 22–23, 2015.

Registration: send a e-mail to silviavf@unizar.es or emf@unizar.es.

Job offers, fellowships and awards

Ph.D. offers

Ph.D in Applied Mathematics.

Department of Mathematical Sciences.

Carnegie Mellon University, Pittsburgh, USA.

Closing date: January 15, 2015.

<http://www.euro-math-soc.eu/job/phd-applied-mathematics-carnegie-mellon-university>

PhD in Mathematical Analysis.

Faculty of Electrical Engineering, Mathematics and Computer Science.

Delft Institute of Applied Mathematics.

Closing date: January 15, 2015.

<http://www.all-acad.com/Job/J0140949/>

Chancellor's Doctoral Fellowship.

Department of Mathematics.

University of Kansas, USA.

Closing date: January 31, 2015.

<http://www.euro-math-soc.eu/job/chancellors-doctoral-fellowship>

Graduate Teaching Assistantship (GTA) Award.

Faculty of Mathematics and Physical Sciences,
School of Mathematics.

University of Leeds.

Closing date: February 20, 2015.

<http://www.jobs.ac.uk/job/AKG374/>

Postdoctoral fellowships

Research associate.

Department of Mathematics.

Imperial College London.

Closing date: January 10, 2015.

<http://www.jobs.ac.uk/job/AKB344/>

Postdoctoral Research Associate in the Mathematics of Solid and Liquid Crystals.

Mathematical Institute.

University of Oxford.

Closing date: January 14, 2015.

<http://www.jobs.ac.uk/job/AKF339/>

PostDoc Position in the Optimization and Optimal Control Group.

Austrian Academy of Sciences.

Linz, Austria.

Closing date: January 15, 2015.

http://www.eurosciencejobs.com/job_display/97679/

Hildebrandt/Assistant Professor.

Department of Mathematics.

University of Michigan, Ann Arbor.

Closing date: January 31, 2015.

<https://www.mathjobs.org/jobs/jobs/6167>

Dynamics and Geometry Postdoctoral Fellowship.

Department of Mathematics.

Wilfrid Laurier University, Canada.

Closing date: March 31, 2015.

<https://www.mathjobs.org/jobs/jobs/6755>

Offers for researchers

Lecturer in Relativity.

School of Mathematical Sciences.

Queen Mary, University of London.

Closing date: January 11, 2015.

<http://www.jobs.ac.uk/job/ATS158/>

Lecturer in Pure Mathematics.

School of Mathematics.

University of Manchester.

Closing date: January 30, 2015.

<http://www.jobs.ac.uk/job/AJZ458/>

Associate Professorship (or Professorship) of Pure Mathematics.

University of Oxford.

Oxford.

Closing date: January 30, 2015.

<http://www.jobs.ac.uk/job/AKF961/>

Lecturer / Senior Lecturer in Applied Mathematics.

College of Science - School of Mathematics and Physics.

University of Lincoln.

Closing date: February 1, 2015.

<http://www.jobs.ac.uk/job/AKG538/>

Professor / Associate Professor of Pure Mathematics.

School of Mathematics and Statistics.

University of Canterbury.

Closing date: February 10, 2015.

<http://www.jobs.ac.uk/job/AJZ109/>

Reader/Chair of Mathematics and Director of Undergraduate Studies.

Department of Mathematics.

Imperial College London.

Closing date: February 10, 2015.

<http://www.jobs.ac.uk/job/AKG607/>

Reader in Mathematics.

Mathematical Sciences.

Queen Mary, University of London.

Closing date: February 28, 2015.

<http://www.jobs.ac.uk/job/ATS069/>

Assistant Professor Mathematics.

Clarkson University.

Potsdam, New York.

Closing date: Open until filled.

<http://sciences.academickeys.com/job/tbvrq5oh/>

Assistant/Associate/Full Professor in Applied Mathematics.

Offers for visiting researchers

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 months in the case of matching support from the host institution. 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.

Closing date:

- April 1st, 2015 for research visits starting August 1st 2015 and later.
- August 31, 2015 for research visits between January 1 and April 30, 2016.

<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>

New Jersey Institute of Technology.

Newark, New Jersey.

Closing date: Open until filled.

<http://sciences.academickeys.com/job/j1g30thk>

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 generally two months before the start of the desired stay. An answer will be given no later than one month after submission of the applications.

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.

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 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>

Visiting the IMUS.

IMUS.

University of Sevilla, Spain.

IMUS offers the possibility of hosting researchers wishing to stay at the Institute for a period ranging from one to twelve months. Priority will be given to those researchers having a research plan, with likely a training proposal in their fields, to be developed in collaboration with IMUS members. 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(*). Nevertheless, IMUS could help to apply for external financial sources, especially for those researchers who are in a sabbatical period from their home institution.

Applications can be submitted at any time by filling out this form. For short periods (around 2 months), it will be enough to submit the application 2 months before the initial date of the desired stay. For longer periods, we recommend to submit the application 1 year before the starting date.

An answer will be given within one month of the submission of the application.

Closing date: Applications can be submitted at any time.

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

Awards

Call for Nominations for the Ostrowski Prize, 2015.

Prize: 100.000 Swiss francs

Closing date: April 15, 2015.

<http://www.ostrowski.ch/index.e.php?ifile=preiss>

Barcelona Dynamical Systems Prize 2015.

Prize: 4000 euros

Closing date: May 30, 2015.

<http://blogs.iec.cat/scm/premis/barcelona-dynamical-systems-prize/>

Financial support for research projects and conferences

New call Horizon 2020: Innovative Training Networks ITN.

The Innovative Training Networks is an action under the Horizon 2020 activity, Marie Skłodowska-Curie actions.

Deadline: January 13, 2015.

<http://www.euro-math-soc.eu/news/14/09/4/new-call-horizon-2020-innovative-training-networks-itn>

Call for proposals, ICTO Scientific Calendar Activities 2016.

ICTP will organize in 2016 about 50 activities (Schools/Colleges, Conferences, Workshops, etc.) either on its Trieste premises, or at other outside venues, these as a rule in a developing or emerging country. Topics for activities are not restricted to theory and the activities are selected on the basis of scientific novelty, impact on the international community with special emphasis on bringing together scientists from South and North, basic training for younger scientists, and hands-on training for computer-intensive subjects. Where appropriate, proposals that combine pedagogical

material with advanced research results, or those that spur new results in an emerging or multidisciplinary field, or those that resolve an outstanding or controversial issue, will be preferred. Research-oriented non-pedagogical activities, as a rule, will receive funds that should mostly be earmarked for participants from developing countries. **Deadline: February 15, 2015.**

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

Call for proposals for scientific activities in 2015.

The EMS Meetings Committee calls for nominations or proposals of speakers and scientific events in 2015. The Executive Committee of the EMS, via its Meetings Committee, is willing to provide support that may cover the cost of the EMS Lecturers and of Distinguished Speakers, and to give partial support to the organization of EMS Weekends. Since resources are scarce, only a limited number of events can be supported. **Deadline: Depends on the category.**

<http://www.euro-math-soc.eu/news/13/01/10/call-proposals-scientific-activities-2015>

Interesting news and publications

Journal of Geometric Mechanics (JGM).

Volume 6, Number 4, December 2014.

<http://www.aimsociences.org/journals/contents/Listnew.jsp?pubID=736>

IMU-Net 68.

November 2014.

<http://www.mathunion.org/imu-net/archive/2014/imu-net-068/>

ICMAT Newsletter.

Seventh number.

<http://www.icmat.es/outreach/newsletter/num7>

MPE2013 moves into Mathematics of Planet Earth.

The successful year-long initiative will continue past 2013.

http://www.rsme.es/org/press_release_EN_Dec11.pdf

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/>

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

Mathematics in Europe.

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

Matemáticas y sus fronteras.

Those interested in publishing something, contact with Manuel de León mdeleon.dos@gmail.com

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

Courses online of Mathematics, Physics,...

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>

Professional network for scientists.

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

Network's members preprints and papers

D. Peralta-Salas, A. del Pino and F. Presas: *Foliated vector fields without periodic orbits.*

1412.0123

[math.DS math.DG]

F.J. Herranz, J. de Lucas and C. Sardón: *Jacobi-Lie systems: fundamentals and low-dimensional classification.*

1412.0300

[math-ph math.MP]

P.D. Prieto-Martínez and N. Román-Roy: *Variational Principles for multisymplectic second-order classical field theories.*

1412.1451

[math-ph math.MP]

V. Guillemin, E. Miranda, A. Rita Pires and G. Scott: *Convexity for Hamiltonian torus actions on b-symplectic manifolds.*

1412.2488

[math.SG math.DG]

T. Mestdag: *Finsler geodesics of Lagrangian systems through Routh reduction.*

1412.3526

[math.DG math-ph math.MP]

A. Enciso and N. Kamran: *Lorentzian Einstein metrics with prescribed conformal infinity.*

1412.4376

[math.AP gr-qc math-ph math.DG math.MP]

Network's collaborators preprints and papers

D.D. Holm: *Variational principles for stochastic fluid dynamics.*

1410.8311

[math-ph math.MP]

N. Georgiou and G.A. Lobos Villagra: *On Hamiltonian minimal submanifolds in the space of oriented geodesics in real space forms.*

1412.0147

[math.DG]

A. Dancer, B. Doran, F. Kirwan and A. Swann: *Symplectic and hyperkahler implosion.*

1412.0437

[math.SG]

L. Bates and J. Sniatycki: *Not-quite-Hamiltonian reduction.*

1412.1500

[math.DG]

T. Do and G. Prince: *New progress in the inverse problem in the calculus of variations.*

1412.1810

[math.DG]

D.J. Saunders, O. Rossi and G.E. Prince: *Tangent bundle geometry induced by second order partial differential equations.*

1412.2377

[math.DG]

I. Bucataru: *Funk functions and projective deformations of sprays and Finsler spaces of scalar flag curvature.*

1412.5282

[math.DG]

Other Conferences

2015 Joint Mathematics meetings.

January 10-13, 2015. San Antonio, USA.

<http://jointmathematicsmeetings.org/jmm>

New Discretization Methods for the Numerical Approximation of PDEs.

January 11-17, 2015. Oberwolfach, Germany.

<http://www.mfo.de/www/schedule/2015/all>

17th International Conference of International Academy of Physical Sciences (CONIPAS-XVII).

January 16–18, 2015. Jaipur, India.

<http://iaps.in/wp/>

Lie Theory and Representation Theory.

January 18–February 6, 2015. Pisa, Italy.

<http://www.crm.sns.it/event/293>

XXIst Oporto Meeting on Geometry, Topology and Physics.

February 4–7, 2015. Oporto, Portugal.

<http://cmup.fc.up.pt/cmup/omgtp/2015/>

Discrete Differential Geometry.

March 1–7, 2015. Oberwolfach, Germany.

<http://www.mfo.de/www/schedule/2015/all>

Latina/os in the Mathematical Sciences Conference.

April 9–11, 2015. Los Angeles, California.

www.ipam.ucla.edu/lat2015

Spring School on Variational Analysis.

April 19–25, 2015. Paseky nad Jizerou, Czech Republic.

<http://www.karlin.mff.cuni.cz/katedry/kma/ss/apr15>

ICMM 2015 International Conference on Mathematics and Mechanics.

April 27–28, 2015. Paris, France.

<http://mathematics.conference-site.com/>

13th Viennese Workshop on Optimal Control and Dynamic Games.

May 13–16, 2015. Vienna, Austria.

<http://orcos.tuwien.ac.at/vw2015>

The 9th International Conference on Differential Equations and Dynamical Systems.

May 14–16, 2015. Dallas, Texas, USA.

<http://www.watsci.org/deds2015/>

SIAM Conference on Applications of Dynamical Systems.

May 17–21, 2015. Snowbird, Utah, USA.

<http://www.siam.org/meetings/ds15/>

ICDDEA 2015: International Conference on Differential & Difference Equations and Applications 2015.

May 18–22, 2015. Amadora, Portugal.

<https://sites.google.com/site/sandrapinelas/icddea-2015>

3rd International Conference on Applied Mathematics and Approximation Theory-AMAT 2015.

May 27–31, 2015. Ankara, Turkey.

<http://amat2015.etu.edu.tr>

Integrability in Mechanics and Geometry: Theory and Computations.

June 1–5, 2015. ICERM, Providence, Rhode Island.

http://icerm.brown.edu/topical_workshops/tw15-1-img/

International Conference on Recent Advances in Pure and Applied Mathematics.

June 3–6, 2015. Istanbul, Turkey.

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

XVII-th International Conference on Geometry, Integrability and Quantization.

June 4–9, 2015. Bulgaria.

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

Classical and Stochastic Geometric Mechanics.

June 8–12, 2015.

<http://bernoulli.epfl.ch/PublicEvent.php?event=1044>

AMS-EMS-SPM International Meeting 2015.

June 10–13, 2015. Porto, Portugal.

<http://aep-math2015.spm.pt/>

Nordfjordeid Summer school 2015 “Lie groups and pseudogroups actions: From classical to differential invariants”.

June 14–18, 2015. Nordfjordeid, Norway.

<http://serre.mat-stat.uit.no/slcc2015/Nordfjordeid-2015-Lie-theory.htm>

International conference “Dynamical Systems and Their Applications”.

June 22–26, 2015. Kiyv, Ukraine.

<http://cde2015.imath.kiev.ua/>

The Eighth Congress of Romanian Mathematicians.

June 25–30, 2015. Iasi, Romania.

<http://www.imar.ro/congmatro8/conf.php>

The 2015 International Conference of Applied and Engineering Mathematics.

July 1–3, 2015. London, UK.

<http://www.iaeng.org/WCE2015/ICAEM2015.html>

EQUADIFF 2015.

July 6–10, 2015. Lyon, France.

<http://equadiff2015.sciencesconf.org/>

SIAM Conference on Control and its Applications.

July 8–10, 2015. Paris, France.

<http://www.siam.org/meetings/ct15/>

XVIII International Congress on Mathematical Physics.

July 27–August 1, 2015. Santiago de Chile, RM, Chile.

<http://www.icmp2015.cl/>

ICIAM 2015. 8th International Congress on Industrial and Applied Mathematics.

August 10–14, 2015. Beijing, China.

<http://www.iciam2015.cn/>

20th International Summer School on Global Analysis and Applications “General Relativity: 100 years after Hilbert”.

August 17–21, 2015. Slovakia.

<http://www.lepageri.eu/summer-school>

The 5th International Conference on Control and Optimization with Industrial Applications.

August 27–29, 2015. Baku, Azerbaijan.

<http://www.coia-conf.org/en/>

IMA Conference on Numerical Methods for Simulation.

August 31– September. UK.

http://ima.org.uk/conferences/conferences_calendar/numerical_methods_for_simulation.html

Symplectic geometry and topology.

September 1–December 11, 2015. Institut Mittag-Leffler, Sweden.

<http://www.mittag-leffler.se/?q=1516f>

IMA Conference on Mathematics of Robotics.

September 8–11, 2015. UK.

http://ima.org.uk/conferences/conferences_calendar/mathematics_of_robotics.html

Higher Structures in String Theory and Quantum Field Theory.

November 16–December 18, 2015. Wien, Viena.

<http://www.esi.ac.at/activities/events/2015/higher-structures-in-string-theory-and-quantum-field-theory>

Conference on General Relativity.

January 5–9, 2016. Hainan, China.

msc.tsinghua.edu.cn/sanya/2016/CGR2016/synopsisandorganizers.aspx

Connections for Women: Differential Geometry Workshop.

January 14–15, 2016. Berkeley, California, USA.

<http://www.msri.org/workshops/702>

Kähler Geometry, Einstein Metrics and Generalizations.

March 21–25, 2016. Berkeley, California.

<http://www.msri.org/workshops/704>

7th 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