



Geometry, Mechanics and Control Network Infosheet

January 2011

**Editors: María Barbero and Silvia
Vilariño**

Contents

Network's activities

XIII Winter Meeting on Geometry,
Mechanics and Control

Job offers, fellowships and awards

PhD offers: FPU

Post-doctoral offers: JdIC, RyC,
JAEDoc

Offers for visiting and senior
researchers

Awards

Financial support for research
projects and conferences

Interesting publications

JGM, Vol. 2 n. 3.

Network's and its collaborators'
preprints

Other conferences

EECI Graduate School on Control

Poisson 2011

GMC Network Infosheet

January 2011

Network's activities

Second Iberoamerican Meeting on Geometry, Mechanics and Control, in honor of Hernán Cendra

Bariloche, Patagonia, Argentina

January 10-14, 2011

More information: <http://geommech.criba.edu.ar/eia11/home>

Talks will soon be uploaded.

XIII Winter Meeting on Geometry, Mechanics and Control and Thematic day on Field Theory

Zaragoza, Spain

Winter Meeting: January 26-27, 2011

Thematic day: January 28, 2011

V International Summer School on Geometry, Mechanics and Control

La Cristalera, Madrid, Spain

July 2011

XX International Fall Workshop on Geometry and Physics

ICMAT, Madrid, Spain.

August 31-September 3, 2011.

<http://www.icmat.es/congresos/xxifwgp>

VI International Young Researchers Workshop on Geometry, Mechanics and Control

Coimbra, Portugal

December 2011.

Job offers, fellowships and awards

PhD offers

National Spanish Program for Training Human Resources. Sub-program: Training University lectures (FPU)

Organism: Spanish Ministry of Science and Innovation.

Application deadline "New Scholarship": to be confirmed.

More information:

http://www.micinn.es/portal/site/MICINN/menuitem.dbc68b34d11ccb d5d52ffeb801432ea0/?vgnnextoid=3bbead16497e0210VgnVCM1000 001034e20aRCRD&vgnnextchannel=a528282978ea0210VgnVCM10 0001034e20aRCRD&lang_chosen=en

Loan University Program to do a master or a PhD in Spain.

Ministry of Education.

Deadline: from December 22, 2010 to March 31, 2011.

http://www.boe.es/diario_boe/txt.php?id=BOE-A-2010-19475

MAEC Scholarships for Spanish Citizenships.

Ministry of International Cooperation.

Deadline: from January 1, 2011 to January 28, 2011; March 1-15, 2011.

http://www.boe.es/diario_boe/txt.php?id=BOE-A-2010-19529

PhD Positions in Mathematics.

Universidad Carlos III, Madrid, Spain.

Interested candidates should contact the Department Chair, Prof. Francisco Marcellán, at pacomarc@ing.uc3m.es, enclosing their curriculum vitae and any other information that helps evaluate their pre-application.

Pre-application deadline is January 31, 2011.

Selected candidates will subsequently be invited to the formal application process.

OCCAM Research PhD Studentships.

Mathematics Institute in Oxford University, UK.

Deadline: February 10, 2011.

<http://www.maths.ox.ac.uk/node/13976>

Support Research staff offers in Spain.

National Program for Recruitment of Human Resources.

Closing date: February 23, 2011.

http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2010-19995

Graduate Teaching Assistanships

School of Mathematics and Statistics.

University of Sheffield, UK.

Closing date: Feb. 25, Apr. 29, Jul. 29, 2011.

<http://www.jobs.ac.uk/job/ACB687/graduate-teaching-assistanships-gtas/>

18 PhD offers by SADCO network (Sensitivity Analysis for Deterministic Controller Design).

Different locations in Europe: Paris, Louvain, Bayreuth, Padova, Rome, Porto, London.

Research topics: Control theory, stabilization and optimization of nonlinear systems, Hamilton-Jacobi theory, differential games, perturbed systems, numerical analysis

Latest deadline: February 28, 2011.

<http://itn-sadco.inria.fr/available-positions>

Ferran Sunyer i Balaguer travel scholarship.

To support the last months to finish the PhD thesis.

Only for PhD students in Catalan universities.

Closing date: February 28, 2011.

<http://ffsb.iec.cat/EN/borses.htm>

Postdoctoral fellowships

Post-doctoral Research Assistant (Quantum Chaos).

University of Bristol, School of Mathematics.

Closing date: January 21, 2011.

<http://www.jobs.ac.uk/job/ABZ937/post-doctoral-research-assistant>

3-year Research Associate.

School of Mathematical Sciences.

University of Adelaide, Australia.

Closing date: January 24, 2011.

<http://www.jobs.ac.uk/job/ACB498/research-associate/>

PostDoc Positions, Mathematics.

Universidad Carlos III, Madrid, Spain.

Interested candidates should contact the Department Chair, Prof. Francisco Marcellán, at pacomarc@ing.uc3m.es, enclosing their curriculum vitae and any other information that helps evaluate their pre-application. PostDoc candidates should also

enclose a brief description of their research interests.

Pre-application deadline is January 31, 2011.

Selected candidates will subsequently be invited to the formal application process.

4 one-year junior visiting positions.

Centro De Giorgi, Pisa, Italy.

Closing date: January 31, 2011.

<http://www.sns.it/it/borse/collaboratoriesterni/annoincorso/avviso122/>

2 Post-doctoral positions.

University of Lisbon.

Expertise: "Probabilistic approach to finite and infinite dimensional dynamical systems"

Closing date: January 31, 2011.

<http://www.jobs.ac.uk/job/ACB880/2-post-doctoral-positions/>

Postdoc Positions in Math Modelling and Opt.

McMaster University, ON, Canada.

Closing date: February 1, 2011.

<http://www.math.mcmaster.ca/~bprotas/news.shtml>

Post-doctoral fellowships for residents in Spain.

Spanish Ministry of Education.

Closing date: February 5, 2011.

<http://www.boe.es/boe/dias/2011/01/11/pdfs/BOE-A-2011-585.pdf>

JAE-Doctor Post-doctoral fellowship.

Institute of Mathematical Sciences, Madrid, Spain.

Closing date: February 8, 2011.

<https://sede.csic.gob.es/servicios/formacion-y-empleo/convocatorias/personal-laboral/2010/jae-doc-2010>

Lecturer in Mathematical Optimization

School of Mathematics

University of Birmingham, UK.

Closing date: February 11, 2011.

<http://jobs.ac.uk/job/ACC562/>

Post Doctoral Research Associate

School of Natural and Mathematical Sciences,

Department of Mechanical Engineering

King's College London.

Closing date: February 12, 2011.

<http://jobs.ac.uk/job/ACC859/>

Postdoctoral fellowship in Geometry.

Institut de Recherche Mathématique Avancée (IRMA)

CNRS & Université de Strasbourg, France.

Closing date : February 15, 2011.

<http://www-irma.u-strasbg.fr/article1094.html>

Postdoctoral fellowships in Spain.

National Programme for Recruitment and Incorporation of Human Resources.

Juan de la Cierva closing date: Feb. 17, 2011.

Ramón y Cajal closing date: Feb. 10, 2011.

http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2010-19995

Post-doctoral position.

Lakehead University, ON, Canada.

Closing date: February 18, 2011.

<http://cms.math.ca/Employment/acad/934>

2-year post-doctoral position on Differential Geometry.

Université Libre de Bruxelles

Closing date: February 28, 2011.

<http://homepages.ulb.ac.be/~joelfine/joboffers.html>

Weierstrass Postdoctoral Fellowship Program

The Weierstrass Institute for Applied Analysis and Stochastic (WIAS) offers postgraduate fellowships for 2010/2011. 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 28, 2011.

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

Grants for short postdoctoral research visits at IMUS

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, grants are offered for post-doctoral stays in the IMUS for a total duration of 5 months. The stays will take place between January 1st, 2011 and July 31st, 2012.

Closing date: July 31, 2011.

<http://www.imus.us.es/pdf/estancias-IMUS-2011-en.pdf>

6 postdoctoral fellowships by SADCO network (Sensitivity Analysis for Deterministic Controller Design).

Different locations in Europe: Paris, Louvain, Bayreuth, Padova, Rome, Porto, London.

Research topics: Control theory, stabilization and optimization of nonlinear systems, Hamilton-Jacobi theory, differential games, perturbed systems, numerical analysis.

Latest deadline: October 31, 2011.

<http://itn-sadco.inria.fr/available-positions>

Offers for visiting and senior researchers

Assistant professor.

Department of mathematics, University of Warwick

Closing date: January 28, 2011, 12am.

<http://www.jobs.ac.uk/job/ABZ306/assistant-professor/>

2011 CRM Junior visiting positions

The "Centro di Ricerca Matematica Ennio De Giorgi" invites applications for the junior visiting programme for 2011 to be performed in the academic year 2011-2012.

4 Junior Visiting positions are offered, each one carrying a salary of 25.000 Euros per year. An additional grant is also made available to invite other researchers to work with.

The junior visitors can take part and benefit from all the scientific activities carried out at the Centre that include intensive periods, workshops, seminars, and of the interdisciplinary character of most of such activities. The contact with international visitors is also an opportunity.

Senior mathematicians that have prospective candidates are invited to encourage them to apply.

Full details about the Junior Visiting Programme 2011-2012 and the application process can be found at: <http://www.crm.sns.it> (grants and open positions) and at:

<http://www.sns.it/it/borse/collaboratoriesterni/annoincorso/avviso122/> (in Italian)

Closing date: January 31, 2011

<http://www.crm.sns.it/hpp/grants.html?year=2011>

Research Associate Position in Mathematics

University of Luxembourg

Possible research areas: Higher structures, supergeometry, noncommutative geometry, and related questions in physics

Closing date: January 31, 2011.

http://www.uni.lu/research/fstc/unite_de_recherche_en_mathematiques

Professor or Associate Professor-Reader in Applied Mathematics

Department of Mathematics

University of Warwick

Closing date: February 14, 2011

<http://www.jobs.ac.uk/job/ACB036/>

Professor in Mathematics

Collège Universitaire de Saint-Boniface, Winnipeg, Manitoba, Canada.

Closing date: February 25, 2011.

<http://cms.math.ca/Employment/acad/931>

Assistant Professor in Mathematics

Cape Breton University, Sydney, NS, Canada.

Closing date: March 7, 2011.

<http://cms.math.ca/Employment/acad/937>

Tenure-Track Position in Pure Mathematics

Wilfrid Laurier University, Waterloo, ON, Canada.

Closing date: March 15, 2011.

<http://info.wlu.ca/academic/postings/item/03162011FriJan7141012EST2011.html>

Lecturer, Associate Professor, Professor.

School of Science, Department of Mathematics and Applied mathematics, Tianjin University, China.

Closing date: Aug. 29, 2011.

[http://sciences.academickeys.com/seeker_job_display.php?dothis=display&job\[IDX\]=28518-SC110120m-8e&oid=0](http://sciences.academickeys.com/seeker_job_display.php?dothis=display&job[IDX]=28518-SC110120m-8e&oid=0)

3 open rank positions on Applied Mathematics.

Universidad del Bio-Bio, Chile.

<http://dmat.ciencias.ubiobio.cl/position.html>

Full-time or Visiting Academic Staff

Faculty of Engineering

Basic Sciences Department

British University in Egypt

<http://jobs.ac.uk/job/ACC682/>

Awards

Scientific "Joan Lluís Vives" Award.

For PhD students about to defend the thesis.

<http://www.vives.org/pcc/>

Financial support for research projects and conferences

Financial support for research projects by Spanish Ministry of Science and Innovation.

Closing date: from Dec. 27, 2010 to Jan. 24, 2011.

http://www.boe.es/diario_boe/txt.php?id=BOE-A-2010-19639

Financial support for organization of conferences by Spanish Ministry of Science and Innovation.

Closing date: from January 15, 2011 to April 14, 2011; from April 15, 2011 to June 30, 2011; from July 1, 2011 to October 25, 2011.

http://www.boe.es/diario_boe/txt.php?id=BOE-A-2010-19639

Interesting news and publications

Matemáticas y sus Fronteras

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

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

Ranking ISI of Spanish Universities

<http://www.rankinguniversidades.es/>

Journal of Geometric Mechanics (JGM)

Vol. 2, n. 3, September 2010.

<http://aimsciences.org/journals/displayPapers1.jsp?pubID=399>

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

P. Aniello, J. Clemente-Gallardo, G. Marmo and G. F. Volkert: From Geometric Quantum Mechanics to Quantum Information.

[arXiv:1101.0625v1](http://arxiv.org/abs/1101.0625v1) [math-ph]

J. C. Marrero, D. Martínez Torres, E. Padrón: Universal Models via Embedding and Reduction for Locally Conformal Symplectic Structures

[arXiv:1101.0194v1](http://arxiv.org/abs/1101.0194v1) [math.DG]

Network's collaborators preprints

S. Gugercin, R. V. Polyuga, C. Beattie, A. van der Schaft: Structure-preserving tangential-interpolation based model reduction of port-Hamiltonian systems.

[arXiv:1101.3485v1](http://arxiv.org/abs/1101.3485v1) [math.NA]

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

[arXiv:1012.5060v1](http://arxiv.org/abs/1012.5060v1) [nlin.CD]

M. Crampin, T. Mestdag: Reduction of invariant constrained systems using anholonomic frames

[arXiv:1101.2551v1](http://arxiv.org/abs/1101.2551v1) [math.DG]

K. Grabowska, J. Grabowski: Dirac Algebroids in Lagrangian and Hamiltonian Mechanics

[arXiv:1101.2497v1](http://arxiv.org/abs/1101.2497v1) [math-ph]

M. Crampin, T. Mestdag: The Cartan form for constrained Lagrangian systems and the nonholonomic Noether theorem. [arXiv:1101.3153v1](http://arxiv.org/abs/1101.3153v1) [math.DG]

L. J. Boya: Introduction to Sporadic Groups.

[arXiv:1101.3055v1](http://arxiv.org/abs/1101.3055v1) [math-ph]

Other conferences

2011 EECI Graduate School on Control

January-May, 2011, Paris, France.

<http://www.eeci-institute.eu/GSC2011>.

DANCE Winter School RTNS2011

(Recent Trends in Nonlinear Science 2011)

January 24-28, 2011. Vilanova i la Geltrú, Spain.

<http://www.dance-net.org/rtns2011>

Thematic month on complex and Riemannian Geometry.

January 31-March 4, 2011. Luminy, France.

[http://www.latp.univ-](http://www.latp.univ-provence.fr/geom2011/index.php/welcome)

[provence.fr/geom2011/index.php/welcome](http://www.latp.univ-provence.fr/geom2011/index.php/welcome)

3rd Iberican Mathematical Meeting.

February 1-3, 2011. Braga, Portugal.

<http://imm3.spm.pt/es/index>

Centennial Meeting RSME 2011.

February 1-5, 2011. Ávila, Spain.

<http://campus.usal.es/~rsme2011/>

NCTS(Taiwan)-CPT(France)Joint Workshop on Symplectic Geometry and Quantum Symmetries in Mathematical Physics.

February 21-25, 2011. Taiwan.

<http://math.cts.nthu.edu.tw/Mathematics/2011Taiwan-FranceWorkshop.htm>

18th Southern California Geometric Analysis Seminar.

February 26-27, 2011. University of California, San Diego, USA.

<http://www.math.ucsd.edu/~scgag>

Great Lakes Geometry Conference 2011

March 5-6, 2011. Ohio State University, Columbus, USA.

http://www.math.ohio-state.edu/~hhtseng/glgc11_main.html

Workshop Discrete, Tropical and Algebraic Geometry.

May 5-7, 2011. Goethe-Universität Frankfurt am Main, Germany.

<http://www.math.uni-frankfurt.de/geometry2011/>

SIAM Conference on Applications of Dynamical Systems.

May 22-26, 2011. Snowbird, Utah, USA.

<http://www.siam.org/meetings/ds11/>

Jornadas sobre los Problemas del Milenio.

June 1-3, 2011. University of Barcelona, Spain.

<http://garf.ub.es/milenio/>

Folding and Unfolding: Interactions from Geometry: 65th birthday of Giuseppe Marmo.

June 9-12, 2011. Ischia, Hotel Continental Terme, Italy.

Poisson Geometry and Applications conference

June 13-16, 2011. Figueira da Foz, Portugal.

<http://www.mat.uc.pt/~poissonga/>

87th Encounter between Mathematicians and Theoretical Physicists: Lorentz geometry in Mathematics and in Physics.

June 16-18, 2011. University of Strasbourg, France.

<http://www-irma.u-strasbg.fr/article1044.html>

Conference on Geometry: Theory and Applications.

June 20-24, 2011. Stift Vorau, Styria, Austria.

Deadline : March 31, 2011, Abstract submission.

<http://www.ag.jku.at/vorau2011>

9th edition of the International Workshop "Lie Theory and Its Applications in Physics"

June 20-26, 2011. Resort "Chaika", near Varna, on the Black Sea, Bulgaria.

It is a meeting intended for both physicists and mathematicians.

Contact information: dobrev@inrne.bas.bg

50th Séminaire de mathématiques supérieures: Metric Measures Spaces: Geometric and Analytic Aspects.

June 27 – July 8, 2011. Université de Montréal, Canada.

http://www.dms.umontreal.ca/~sms/Metric11/index_e.php

American Control Conference.

June 29-July 1, 2011. San Francisco, California, USA.

<http://a2c2.org/conferences/acc2011/>

Thematic Program on Discrete Geometry and Applications.

July-December 2011. Fields Institute, Toronto, ON, Canada.

<http://www.fields.utoronto.ca/programs/scientific/11-12/discretegeom/index.html>

ESF-EMS-ERCOM Mathematics Conference: Completely Integrable Systems and Applications.

July 3-8, 2011. Erwin Schrödinger Institute, Vienna, Austria

Deadline for applications: April 20, 2011.

<http://www.esf.org/index.php?id=7348>

SIAM Conference on Control and Its Applications

July 25-27, 2011. Hyatt Regency Baltimore, Baltimore, Maryland, USA.

Submission deadlines.

January 3, 2011: Minisymposium proposals

January 31, 2011: Abstracts for contributed and minisymposium speakers.

<http://www.siam.org/meetings/ct11/>

18th World Congress of the International Federation of Automatic Control (IFAC)

August 28-September 2, 2011. Milano, Italy.

<http://www.ifac2011.org/>

50th IEEE Conference on Decision and Control and European Control Conference.

December 12-15, 2011. Orlando, Florida.

Submission Due: March 2, 2011.

<http://control.disp.uniroma2.it/cdcecc2011>

NOTE: if you want to include information in this infosheet, please send it to gmcnet@ull.es