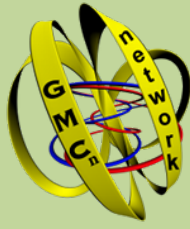


GMC Network Infosheet

January 2017



Geometry, Mechanics and Control Network Infosheet

January 2017

Editors: Rodrigo Sato, Jorge
Jover, Cristina Sardón

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Network's activities

Special Session of the Biennial of the Royal Mathematical Society.

31 January 2017, Zaragoza, Spain.

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

Job offers, fellowships and awards

Ph.D. offers

Doctoral fellowships - Programme INPhINIT "La Caixa".

Ph.D. grants in physics and mathematics, in areas such as Algebraic geometry, Dynamical systems, or Symplectic geometry. Positions are offered in several Spanish research centres, such as ICMAT, BGSMath and the Basque Center for Applied Mathematics.

Closing date: 2 February 2017.

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

FPU Spanish grants.

Grants for PhD students in Spanish universities. Aimed at research training in doctoral programs and acquisition of university teaching skills in any area of scientific knowledge.

Universities and research centres in Spain.

Closing date: 3 February 2017.

<http://www.mecd.gob.es/servicios-al-ciudadano-mecd/catalogo/general/educacion/998758/ficha/998758-2016.html>

PhD fellowship within Geometric Numerical Integration for Particle Dynamics in Turbulent Flows.

The main focus is the design of new structure-preserving numerical methods specifically tailored to accurately track translational and rotational motion of non-spherical particles in complex flows simulated by direct numerical simulation.

Norwegian University of Science and Technology (Trondheim, Norway).

Closing date: 5 February 2017.

<https://www.jobbnorge.no/en/available-jobs/job/132714/phd-fellowship-within-geometric-numerical-integration-for-particle-dynamics-in-turbulent-flows>

PhD studentship: Bayesian geometric inverse problems.

The aim of this project is to develop computational Bayesian techniques for the solution of geometric inverse problems that arise in a wide range of applications.

University of Nottingham (United Kingdom).

Closing date: 7 February 2017.

<http://www.jobs.ac.uk/job/AVL119>

PhD position: Formal methods in control.

The successful candidate is expected to advance theory of as well as computational methods for abstraction-based controller synthesis, to a degree that facilitates routine, fully automated, practical application of the approach to nonlinear continuous-state plants and complex specifications. The focus is on synthesis algorithms that are both efficient and formally correct.

University of Munich (Germany).

Closing date: 15 February 2017.

<https://www.linkedin.com/pulse/phd-position-formal-methods-control-munich-germany-gunter-reissig>

Grants for PhD positions in Spanish firms.

Offered by the Spanish Minister of Economy, these grants help to finance employment contracts for PhD students and their stais at research centres.

Spanish firms.

Closing date: 15 February 2017.

<http://www.idi.mineco.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnnextoid=63523c2b67c47510VgnVCM1000001d04140aRCRD>

Supergeometry and mathematical physics.

The project, supervised by professors Norbert Poncin and Zoran Skoda, will be focused on re-

finned versions of (multi)graded geometry and supergeometry in particular. Analogues of algebraic groups, homogeneous spaces, fiber bundles with connections and additional constructions, as well as constructions motivated by physics will be developed. We expect new insight, which multiple gradings give about known constructions in supersymmetry, as well as new geometries and physical models, possibly including in some cases the treatment of quantization in this context. Applications must include letter of motivation, photo, full CV, transcript of records and copies of diplomas, and names of at least two referees who are willing to write a letter of recommendation.

University of Luxembourg (Luxembourg).

Closing date: 20 February 2017.

norbert.poncin@uni.lu

Fullbright Spanish grants.

Post-grade studies for Spanishes researches in the United States, for up to 2 years.

Universities in the United States.

Closing date: 16 March 2017.

<http://fulbright.es/convocatorias/ver/1527/ampliacion-de-estudios/2018-2019>

PhD position in holomorphic dynamics.

The candidate will incorporate to the research project ‘Holomorphic Dynamics connecting Geometry, Root-Finding, Algebra, and the Mandelbrot set’, funded by an Advanced Grant of the European Research Council (ERC) for the period 20162021; principal investigator is Prof. Dierk Schleicher, PhD.

Jacobs University (Bremen, Germany).

Closing date: Open until filled.

<http://www.jacobs-university.de/node/1911>

Postdoctoral fellowships

Juan de la Cierva (incorporation).

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

Spain.

Closing date: 25 January/31 January 2017.

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

Juan de la Cierva (formation).

2-year position for new researchers in a Spanish

research center.

Spain.

Closing date: 26 January/2 February 2017.

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

Post-doctoral fellowships in Mathematics.

Offered at the International Centre for Mathematics and Computer Science (CIMI) in Toulouse.

Toulouse (France).

Closing date: 3 February 2017.

<http://www.cimi.univ-toulouse.fr/en/postuler>

Research associate in Mathematics.

The position is funded as part of the ‘Simons Foundation Collaboration on Special Holonomy in Geometry, Analysis and Physics’.

University of Bath (United Kingdom).

Closing date: 5 February 2017.

<http://www.jobs.ac.uk/job/AWQ013>

Research Associate in Analysis.

The goal of this project is to develop tools to understand the relationship between the structure of spectra of generators of Hamiltonian dynamical systems and rates of convergence for the associated ergodic theorem.

Cardiff University (United Kingdom).

Closing date: 5 February 2017.

<http://www.jobs.ac.uk/job/AWD279>

Post-doctoral positions in Mathematics.

The Divisions of Algebra and geometry and Analysis and probability theory at the Department of Mathematical Sciences at Chalmers and the University of Gothenburg invite applications for two two-year post-doctoral position.

University of Gothenburg (Sweden).

Closing date: 27 February 2017.

https://web103.reachmee.com/ext/I003/304/job?site=5&lang=UK&validator=a72aeedd63ec10de71e46f8d91d0d57c&job_id=4741

Post-doctoral position in Optimal control and energy management of vehicles.

The research will focus on new control system design methodologies. Of particular interest is modularity, use of look-ahead information, and predictive and optimal control.

Chalmers University of Technology (Gothenburg, Sweden).

Closing date: 28 February 2017.

<http://www.all-acad.com/Job/J0234215>

ETH Zurich post-doctoral fellowships.

Junior Post-doctoral Researchers.

ETH Zurich (Switzerland).

Closing date: 1 March 2017.

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

ICMAT Postdoc 2017.

The ‘Instituto de Ciencias Matemáticas’ (ICMAT-Institute of Mathematical Sciences) offers 2-year post-doctoral appointments for researchers in Mathematics with an excellent curriculum who

wish to pursue their research career at the ICMAT.

ICMAT (Madrid, Spain).

Closing date: 1 March, 2017.

https://www.icmat.es/severo-choa/HumanResources/ICMat_Postdoc2017

Research fellow in systems and control.

The research fellow will conduct systems and control theory oriented research, relevant to the automation of large-scale irrigation networks.

University of Melbourne (Australia).

Closing date: 10 March 2017.

<http://jobs.unimelb.edu.au/caw/en/job/889885>

Post-doctoral position in holomorphic dynamics.

The candidate will incorporate to the research project ‘Holomorphic Dynamics connecting Geometry, Root-Finding, Algebra, and the Mandelbrot set’, funded by an Advanced Grant of the European Research Council (ERC) for the period 20162021; principal investigator is Prof. Dierk Schleicher, PhD.

Jacobs University (Bremen, Germany).

Closing date: Open until filled.

<http://www.jacobs-university.de/node/1911>

Post-doctoral researcher in Harmonic Analysis and Discrete Geometry.

The project is directed by Nir Lev and is funded by a Starting Grant from the European Research Council (ERC).

Bar Ilan University (Israel).

Closing date: Open until filled.

<https://www.mathjobs.org/jobs/jobs/9687>

Humboldt research fellowship for post-doctoral researchers.

6-24 month research programs.

Alexander von Humboldt Foundation.

Closing date: Open.

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

Lisa Meitner program.

FWF Austrian Science Fund.

Vienna (Austria).

Closing date: Open.

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

Funded postdoctoral fellowship.

Department of Mathematics and Statistics.

University of Reading.

Closing date: Open.

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

Offers for researchers

Lecturer/Senior Lecturer in Optimisation/Operational Research.

School of Mathematical Sciences.

Queen Mary University of London (United Kingdom).

Closing date: 5 February 2017.

<http://www.jobs.ac.uk/job/AWA977>

Lecturer in Algebraic Geometry.

Department of Mathematics.

University College London (United Kingdom).

Closing date: 7 February 2017.

https://atsv7.wcn.co.uk/search_engine/jobs.cgi?jcode=1625634&owner=5041178&ownertype=fair

University assistant in mathematics and geometry.

Institute of Mathematics and Scientific Computing.

University of Graz (Austria).

Closing date: 8 February 2017.

<http://jobs.uni-graz.at/en/MB/20/99/3254>

Torres Quevedo positions.

Research positions at Spanish firms.

Spain.

Closing date: 9 February 2017.

<http://www.idi.mineco.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccb5d52ffeb801432ea0/?vgnnextoid=b2a73c2b67c47510VgnVCM1000001d04140aRCRD>

Research at IMAL.

Instituto de Matemática Aplicada del Litoral (IMAL).

Santa Fé (Argentina).

Closing date: 15 February 2017.

<http://www.imal.santafe-conicet.gov.ar/index.php?ver=noticias#ConvInv>

Professorship for Algebra and Geometry.

Position at the Institute of Algebra and Geometry. The language of instruction for the basic undergraduate courses is German.

Karlsruhe Institute of Technology (Germany).

Closing date: 28 February 2017.

<http://www.all-acad.com/Job/J0233013>

Tenure-track position in Mathematics.

Positions available in Analysis, Probability Theory and Geometry, at the Faculty of Electrical Engineering, Mathematics and Computer Science.

Delft University of Technology (the Netherlands).

Closing date: 15 March 2017.

<http://www.all-acad.com/Job/J0233761>

Associate Professor in Geometry/Topology.

Department of Mathematics.

Aarhus University (Denmark).

Closing date: 1 April 2017.

<https://www.mathjobs.org/jobs/jobs/9940>

Assistant professor in control systems.

Applied Mathematics and Statistics.

University of California Santa Cruz (United States).

Closing date: Open until filled (final date: 30 June 2017).

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

Assistant Professor in Geometry/Geometric Analysis.

Department of Mathematics.

University of Massachusetts Boston (Massachusetts, United States).

Closing date: Open until filled.

<https://umb.interviewexchange.com/jobofferdetails.jsp?JOBID=79630>

Offers for visiting researchers

Abel Visiting Scholar Program.

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 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: 30 April 2017.

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

Visit the Institute of Mathematical Sciences, India.

The mathematics group at IMSc actively seeks to

organize visits by research mathematicians from all over the world..

Such visits typically center around a set of formal lectures. A public lecture targeted at a general audience is often a part of these visits. Durations of such visits range from a couple of days to a semester or more.

Closing date: Open.

https://www.imsc.res.in/visiting_mathematics

Nelder visiting fellowships.

Experienced researchers of substantial international standing, illustrated by measures of esteem and/or publication record. They normally hold a full professorship or equivalent senior position at their home institution.

The duration of the Visiting Fellowship is normally between one and three months, preferably during term time, but never less than one month..

Closing date: None. Applications will be assessed continuously until further notice.

<http://www.imperial.ac.uk/mathematics/research/nelder-visiting-fellowships/>

Invitation Fulbright speakers.

Fulbright Commission.

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

Closing date: June 2017.

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

Visiting research fellow in Oxford.

Mathematical Institute-University of Oxford.

Visiting researchers at the University of Oxford.

Closing date: Open.

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

Visiting research fellow in Kent State University.

Mathematics Department-KSU Ohio.

Visiting researchers at KSU.

Closing date: Open.

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

Visiting researchers at AIMS.

African Institute for Mathematical Sciences.

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

journal club. Visits to local universities can be arranged.

Closing date: Open.

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

Cheryl E. Praeger Visiting Research Fellowship.

University of Western Australia.

Recipients of the fellowship are expected to participate in education, e.g. via lectures, and to participate in collaborative research with members of the School of Mathematics and Statistics and the Centre for the Mathematics of Symmetry and Computation (CMSC) during a visit of at least two weeks.

Closing date: Annually open.

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

Aarhus Universitets.

Aarhus University Research Foundation.

Research in Denmark.

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

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

Research in pairs in the Mathematisches Forschungsinstitut Oberwolfach.

Mathematisches Forschungsinstitut Oberwolfach. Oberwolfach, Germany.

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

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

Focused research groups in Banff, Canada.

Banff International Research Station.

Banff, Alberta, Canada.

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

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

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

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

Research in Teams in Banff, Canada.

Banff International Research Station.

Banff, Alberta, Canada.

The Research in Teams program offers teams of 2 to 4 researchers the opportunity to live and work at the BIRS facility for periods of 1 to 2 weeks, in order to concentrate on their research or to finish major projects. **Closing date: No precise deadline: a minimum of 4 months before the proposed start of the event.**

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

Centre International de rencontres mathématiques (CIRM).

CIRM, Marseille.

Marseille, France.

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

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

Call for Visiting Professors at CIRM.

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

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

Closing date: Applications three months before planned stay.

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

Visiting the ICMAT.

ICMAT.

Madrid, Spain.

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

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

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

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

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

2-3 people from Universities located in different towns, who intend to work on a definite research project from 1 to 6 weeks). Applicant partners must submit a scientific project in the field of mathematics resulting in one or more scientific publications on journals of excellent mathematical level; Participants in the RIP Program will also give occasional research seminar talks at the CIRM or at the University of Trento. Applications where one or more of the partners are Italians will of course be welcome.

Closing date: Applications may be sent any time.

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

Visiting the CRM.

Centre de Recerca Matemàtica.

Catalonia, Spain.

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

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

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

Visiting the IMUS.

IMUS.

University of Sevilla, Spain.

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

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

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

Awards

Vicent Caselles prize.

Prizes awarded to young researchers that have carried out their research projects in a Spanish university or scientific centre. The prize is jointly organised by the 'Real Sociedad Matemática Española' (RSME, Royal Spanish Mathematical Society) and the BBVA Foundation

Closing date: 27 February 2017.

<https://www.imus.us.es/es/convocatoria/1040>

SIAM Student paper prize.

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

Closing date: 15 February 2017.

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

Coxeter-James Prize 2018.

The Coxeter-James Prize Lectureship recognizes young mathematicians who have made outstanding contributions to mathematical research. The

selected candidate will deliver the prize lecture at the Winter Meeting.

Closing date: 30 June 2017.

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

ECCOMAS young investigators awards.

For young scientists in the field of Computational Engineering/Mathematical Sciences

Closing date: December 2017.

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

Humphreys Award.

Award for mentorship of undergraduate women in Mathematics

Closing date: April 30, Year N for the Year N+1 Award.

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

Abdus Salam Medal.

The world Academy of Science of developing countries

Closing date: No precise deadline.

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

Financial support for research projects and conferences

Active funding opportunities.

National Science Foundation

Deadline: 7 February 2017.

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504870&org=NSF&sel_org=NSF&from=fund

Financial support for attendance to conferences.

RSME

Deadline: 30 March-30 September every year.

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

Financial support for workshop organization.

Banff International Research Station

Deadline: No precise deadline but notification with months in advance.

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

The Royal Society Grants.

Fund about 1500 researchers, including approximately 600 research fellows, through grant schemes.

Deadline: No precise deadline.

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

International Mathematical Union-Conference support program.

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

Deadline: No precise deadline but 4 months in advance to the Grant Selection.

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

Financial support from CICS.

Center for International Cooperation in Science

Deadline: several calls.

<http://www.cics.tn.nic.in/>

Financial support for organizing scientific conferences.

SNSF

Deadline: All year round.

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

Hosting a workshop at AIMS South Africa.

AIMS South Africa will make a contribution to the cost of the workshop provided that funding is available, and that the workshop falls within one

of its research focus areas.

Deadline: No precise deadline.

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

Mathematical and physical sciences funding.

National Science Foundation

Deadline: No precise deadline.

https://www.nsf.gov/funding/pgm_list.jsp?org=MPS

Interesting news and publications

Journal of Geometric Mechanics (JGM).

Volume 8, Number 4, December 2016.

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

IMU-Net 80.

November 2016.

<http://www.mathunion.org/imu-net/archive/2016/imu-net-080/>

ICMAT Newsletter.

13th number.

https://www.icmat.es/newsletter/2016/thirteenth_es.pdf

New AIMS Journal.

New open access journal.

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

The GMC network.

International, spanish based network focused on Geometry, Mechanics and Control.

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

Reports@SCM.

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

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

Jobs for Mathematicians.

Academic and other math jobs.

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

Women and Mathematics.

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

Academic positions in Spain, France and Belgium.

Mathematics and Physics related areas.

<http://postes.smai.emath.fr/postdoc/>

Mathematics in Europe.

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

Matemáticas y sus fronteras.

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

Mathematics and Neuroscience.

<http://corbifoundation.org/>

Online textbooks: MIT OPEN COURSEWARE.

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

Free online courses in Mathematics.

Free online courses of reputable North American Universities.

https://www.edx.org/course?search_query=mathematics

Search of academic jobs in Mathematics in Europe.

Look for PhD, post doc positions, research assistant, etc.

<http://academicpositions.eu/>

Search of academic jobs in Mathematics in the UK.

Look for PhD, post doc positions, research assistant, etc.

<http://www.jobs.ac.uk/categories/postdoc-jobs>

Search of academic jobs in Mathematics worldwide.

Look for PhD, post doc positions, research assistant, etc.

<http://www.findapostdoc.com/>, <https://www.postdocjobs.com/>

Search of academic jobs in Mathematics in Spain.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships.

<http://www.madrimasd.org/madrid-ciencia-tecnologia/convocatorias>

Search of academic jobs in Mathematics.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships.

<http://www.indeed.com/q-Postdoctoral-jobs.html>

Courses online of Mathematics, Physics and other disciplines.

Courses from 62 universities.

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

Advice for New Ph.D.'s.

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

The American Mathematical Society bookstore.

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

Network's members preprints and papers

Francisco J. Herranz, Javier de Lucas and Mariusz Tobolski: *Lie-Hamilton systems on curved spaces: A geometrical approach.*

1612.08901 (version 2)

[math-ph, math.MP]

José F. Cariñena, Fernando Falceto, Janusz Grabowski and Manuel F. Rañada: *Revisiting Lie integrability by quadratures from a geometric perspective.*

1701.03907

[math-ph, math.CA, math.MP, nlin.SI]

Leonardo Colombo: *Second-order constrained variational problems on Lie algebroids: applications to optimal control.*

1701.04772

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

Angel Ballesteros, Catherine Meusburger and Pedro Naranjo: *AdS Poisson homogeneous spaces and Drinfel'd doubles.*

1701.04902

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

Jose F. Cariñena, Francisco J. Herranz and Manuel F. Rañada: *Superintegrable systems on 3-dimensional curved spaces: Eisenhart formalism and separability.*

1701.05783

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

Anthony Bloch, Leonardo Colombo, Rohit Gupta and Tomoki Ohsawa: *Optimal Control Problems with Symmetry Breaking Cost Functions.*

1701.06973

[math.OC, cs.SY, math-ph, math.DS, math.MP]

Alberto Enciso and Niky Kamran: *Lorentzian Einstein metrics with prescribed conformal infinity.*

1412.4376 (version 2)

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

Network's collaborators preprints and papers

David Martínez Torres: *Proper Lie groupoids are real analytic.*

1612.09012 (version 2)

[math.DG]

Swapna Rana, Preeti Parashar, Andreas Winter and Maciej Lewenstein: *Logarithmic Coherence: Operational interpretation of l_1 -norm Coherence.*

1612.09234

[quant-ph, cs.IT, math-ph, math.IT, math.MP]

Yunhe Sheng, Xiaomeng Xu and Chenchang Zhu: *String principal bundles and Courant algebroids.*

1701.00959

[math.DG]

Tudor S. Ratiu, Asilya Suleymanova and Andrei Shafarevich: *Spectral series of the Schrödinger operator with delta-potential on a three-dimensional spherically symmetric manifold.*

1701.01759

[math-ph, math.MP]

Kumar Abhinav, A. Ghose Choudhury and Partha Guha: *Bäcklund Transformation and Quasi-Integrable Deformation of Mixed Fermi-Pasta-Ulam and Frenkel-Kontorova Models.*

1701.01929 (version 2)
[math-ph, math.MP, nlin.SI]

Quôc-Anh Ngô and Hong Zhang: *Global existence and convergence of Q -curvature flow on manifolds of even dimension.*

1701.02247
[math.AP, math.DG]

Giovanni Landi and Chiara Pagani: *A class of differential quadratic algebras and their symmetries.*

1701.02281
[math.QA, math-ph, math.MP, math.RA]

François Gay-Balmaz: *A variational derivation of the thermodynamics of a moist atmosphere with irreversible processes.*

1701.03921
[math-ph, math.MP, physics.flu-dyn]

Hsuan-Yi Liao, Mathieu Stiénon and Ping Xu: *Formality for g -manifolds.*

1701.04872
[math.DG, math.QA]

Jose A. Carrasco, Federico Finkel, Artemio Gonzalez-Lopez and Piergiulio Tempesta: *A duality principle for the entanglement entropy of free fermion systems.*

1701.05355
[quant-ph, cond-mat.stat-mech, hep-th, math-ph, math.MP]

Alberto S. Cattaneo, Pavel Mnev and Nicolai Reshetikhin: *A cellular topological field theory.*

1701.05874
[math.AT, hep-th, math-ph, math.GT, math.MP, math.QA]

Katarzyna Grabowska and Janusz Grabowski: *Remarks on generalized Lie algebroids and related concepts.*

1701.07233
[math.DG, math-ph, math.MP]

Luis Franco-Pérez, Marian Gidea, Mark Levi and Ernesto Pérez-Chavela: *Stability interchanges in a curved Sitnikov problem.*

1701.07451
[math.DS, math-ph, math.MP, nlin.CD]

Andrew James Bruce, Katarzyna Grabowska and Janusz Grabowski: *Remarks on contact and Jacobi geometry.*

1507.05405 (version 2)
[math.DG, math-ph, math.MP, math.SG, 53D05, 53D10, 53D17, 58E40, 58H05]

Tara S. Holm and Liat Kessler: *Circle actions on symplectic four-manifolds.*

1507.05972 (version 3)
[math.SG]

Giovanni Bazzoni, Indranil Biswas, Marisa Fernández, Vicente Muñoz and Aleksy Tralle: *Homotopic properties of Kähler orbifolds.*

1605.03024 (version 2)
[math.DG, math.AT, math.SG]

Luis Álvarez-Cónsul, Indranil Biswas and Oscar García-Prada: *A Tannakian approach to dimensional reduction of principal bundles.*

1609.03790 (version 2)
[math.AG, hep-th, math-ph, math.DG, math.MP]

Dirk Kreimer and Karen Yeats: *Diffeomorphisms of quantum fields.*

1610.01837 (version 2)
[math-ph, hep-th, math.MP]

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

1611.04127 (version 2)
[math.DG, hep-th]

Other Conferences

Bangkok Workshop on Discrete Geometry and Statistics.

30 January-3 February 2017. Bangkok. Thailand.

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

AIM Workshop: Painleve equations and their applications.

6–10 February 2017, American Institute of Mathematics, San Jose, CA.

<http://aimath.org/workshops/upcoming/painleveapp/>

A Panorama on Singular Varieties: A Conference to Celebrate Le Dung Trang Seventieth birthday.

7–10 February 2017, Institute of Mathematics of

the University of Seville IMUS, Spain.

<http://www.imus.us.es/ledt70/>

IMA Annual Program Workshop: Optical Imaging and Inverse Problems.

13–17 February 2017, IMA, University of Minnesota, Minneapolis, MN.

<https://www.ima.umn.edu/2016-2017/W2.13-17.17/>

SIAM Conference on Computational Science and Engineering 2017 (SIAM CSE'17).

27 February-3 March 2017, Atlanta, Georgia, USA.

<http://www.siam.org/meetings/cse17/>

The 3rd Seminar on Operator Theory and its Applications.

8–9 March 2017, Ferdowsi University of Mashhad, Iran.

<http://ota3.um.ac.ir/index.php?&newlang=eng>

51st Spring Topology and Dynamical Systems Conference (STDC 2017).

8–11 March 2017, NJCU (School of Business), Jersey City, NJ, USA..

<http://https://sites.google.com/site/2017springconftopanddynamics/home>

Resonances: Geometric Scattering and Dynamics.

13–17 March 2017, CIRM, Luminy, France.

<http://programme-scientifique.weebly.com/1604.html>

Workshop "Modern Challenges in Continuum Mechanics".

3–6 April 2017, Zagreb, Croatia.

<http://www.fer.unizg.hr/mampit/events/workshop>

MFO Workshop Discrete Geometry .

9–15 April 2017, Oberwolfach, Germany.

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

Young Researcher Workshop on Differential Geometry in Minkowski Space.

17–20 April 2017, Granada, Spain.

<http://www.ugr.es/~rcamino/minkowski/index.html>

Thematic Semester: Dynamics and Geometry.

18 April-14 October 2017, Universities of Angers, Brest, Nantes, Rennes (FRANCE).

<http://https://www.lebesgue.fr/content/sem2017>

Complex Geometry, Dynamical Systems and Foliation Theory.

1–16 May 2017, Institute for Mathematical Sciences, National University of Singapore.

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

4th International Workshop on Nonlinear and Modern Mathematical Physics.

4–8 May 2017, University Putra Malaysia, Kuala Lumpur, MALAYSIA.

<http://einspem.upm.edu.my/nmmp2017/>

Methods in Geometry and Physics.

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

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

Spring School ContrOpt 2017 : Control and Optimization.

15–19 May 2017, Monastir, Tunisia.

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

AIM workshop Mathematical questions in wave turbulence theory.

15–19 May 2017. San Jose, California, USA.

<http://aimath.org/workshops/upcoming/>

Complex Geometry, Dynamical Systems and Foliation Theory.

21–16 May 2017, Singapore.

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

SIAM conference on applications of dynamical systems.

21–25 May 2017, Snowbird, Utah, US.

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

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

5–9 June 2017. Marseille, France.

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

Aspects of time-frequency analysis.

5–7 June 2017, Torino, Italy.

http://www.univie.ac.at/nuhag-php/event_NEW/make.php?event=atfa2017

International Conference on Differential and Difference Equations and Applications 2017.

5–9 June 2017, Amadora, Portugal.

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

Physics and Mathematics of nonlinear phenomena.

17–24 June 2017, Gallipoli, Italy.

<http://conference.unisalento.it/ocs/index.php/pmnp2017/pmnp2017>

2nd IMA Conference on Nonlinearity and Coherent Structures.

19–21 June 2017. Norwich, UK.

ima.org.uk/conferences/conferences_calendar/2nd-ima-conference-nonlinearity-coherent-structures.html

Preservers everywhere.

19–23 June 2017, Szeged, Hungary.

<http://www.math.u-szeged.hu/~gehergy/conference.html>

FDIS2017 Finite Dimensional Integrable Systems in Geometry and Mathematical Physics.

3–7 July 2017, Barcelona, Spain.

http://www.crm.cat/en/Activities/Curs_2016-2017/Pages/Finite-Dimensional-Integrable-Systems-in-Geometry-and-Mathematical-Physics.aspx

XX Summer Diffiety School.

20-31 July 2017, Rome, Italy.

<https://sites.google.com/site/levicivitaistitute/Activities/DiffietySchools/xx-summer-diffiety-school>

7th PHD Summer school in Discrete Mathematics.

23–29 July 2017, Rogla, Slovenia.

<https://conferences.famnit.upr.si/event/2/>

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

7–11 August 2017, Ghent, Belgium.

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

Mathematical Questions and Challenges in Quantum Electrodynamics and its Applications .

10–16 September 2017, Oberwolfach, Germany.

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

IMA Conference on Inverse Problems from Theory to Application.

19–21 September 2017, Cambridge, UK.

http://ima.org.uk/conferences/conferences_calendar/inverse-problems.html

Classical and Quantum Mechanical Models of Many-Particle Systems .

3–9 December 2017, Oberwolfach, Germany.

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

DS19 SIAM Conference on Applications of Dynamical Systems.

19–23 May 2019. Snowbird, Utah, USA.

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

NOTE: If you want to include information in this info-sheet, please send it to gmcnet@ull.es