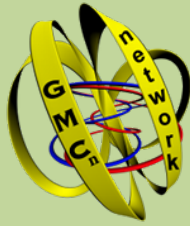


GMC Network Infosheet

December 2016



Geometry, Mechanics and Control Network Infosheet

December 2016

Editors: Rodrigo Sato, Jorge
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Network's activities

11th Young Researchers workshop on Geometry, Mechanics and Control.

12–14 January 2017, Tenerife, Islas Canarias, Spain.

Courses:

Nicola Sansonetto (University of Verona, Italy): *Integrability and Nonholonomic Systems with Symmetry*

Marco Caponigro (CNAM, Conservatoire National des Arts et Métiers, Paris, France): *Stabilization and optimal control in multiagent dynamics*

Alejandro Cabrera (UFRJ, Rio de Janeiro, Brasil): *Introduction to supergeometry*

<http://gmcnet.webs.ull.es/?q=activity-detail/1762>

5th Iberoamerican conference on Geometry, Mechanics and Control.

16–20 January 2017, Tenerife, Islas Canarias, Spain.

<http://5ibamgmc.webs.ull.es/>

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

PhD studentship - Information geometry of controlled quantum open systems.

This PhD project aims to further expand our understanding of open dynamics by exploiting new insights from complementary areas such as non-equilibrium statistical mechanics, quantum control, quantum information and quantum metrology.

University of Nottingham (United Kingdom).

Closing date: 9 January 2017.

<http://www.all-acad.com/Job/J0221543>

PhD studentship - Bifurcations in symmetric Hamiltonian systems.

In this project a general theory for bifurcations of relative equilibria and relative periodic orbits will be developed for Hamiltonian systems with symmetry. The project involves knowledge in Lagrangian and Hamiltonian systems, dynamical systems, Lie group theory and basic differential geometry.

University of Surrey (United Kingdom).

Closing date: 10 January 2017.

<http://www.jobs.ac.uk/job/AUT233/>

EPSRC DTP PhD studentship: Anabelian geometry of curves over finite fields.

The project is within the research area of anabelian geometry, a newly developed theory which has recently grown very successful by achieving very impressive results in Number theory and arithmetic geometry. The applicant will investigate new techniques and applications of the theory.

University of Exeter (United Kingdom).

Closing date: 11 January 2017.

<http://www.jobs.ac.uk/job/AVE343>

PhD Studentship in Mathematics.

Candidates with interests in algebraic geometry or mathematics education are particularly encouraged to apply, but applications in any of the other research areas represented within the De-

partment of Mathematics will also receive serious consideration.

University College Cork (United Kingdom).

Closing date: 26 January 2017.

<http://www.jobs.ac.uk/job/AVS324>

Doctoral fellowships - Programme INPhINIT “La Caixa”.

Ph.D. grants in several fields, including 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>

PhD position in Numerical Methods.

4-year position in the project 'Numerical methods in the representation of curves and surfaces, positive matrices and applications', supervised by professor Juan Manuel Peña Ferrández. Details of the position are established by the Spanish Ministry of Economy and Competitiveness (see B.O.E. 8/11/2016, in Spanish).

Departamento de Matemática Aplicada, Universidad de Zaragoza (Zaragoza, Spain).

Closing date: Open until filled.

jmpena@unizar.es

Postdoctoral fellowships

Two postdoctoral positions at BGSMath.

One 2-year position in each of the following area groups:

- Algebra, Combinatorics, Geometry and Logic.
- Analysis, Dynamical Systems, Probability Theory.

Barcelona Graduate School of Mathematics (Spain).

Closing date: 8 January 2017.

<http://bgsmath.cat/bgsmath-postdoctoral-ca11-2017-2019>

Postdoctoral fellowship grants.

The scientific areas for the year's two programs are: Fractal Geometry and Dynamics, and Tropical Geometry, Amoebas and Polytopes.

Institut Mittag-Leffler (Sweden).

Closing date: 8 January 2017.

<http://www.mittag-leffler.se/research-programs/postdoctoral-fellowship-grants>

Two-year postdoctoral positions in Mathematics.

The research areas include algebraic geometry, dynamical systems, mathematical physics and control theory.

Queen's University (Canada).

Closing date: 16 January 2017.

<http://www.mast.queensu.ca/positions>

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/MICI/NN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnnextoid=63b7c44759da7510VgnVCM1000001d04140aRCRD>

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.dbc68b34d11ccb5d52ffeb801432ea0/?vgnnextoid=8caea9bf9ada7510VgnVCM100001d04140aRCRD>

ETH Zurich Postdoctoral Fellowships.

Junior Postdoctoral Researchers.

ETH Zurich (Switzerland).

Closing date: 1 March 2017.

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

Humboldt Research Fellowship for Postdoctoral 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**Faculty positions in Mathematics at ICTS-TIFR, Bangalore.**

International Centre for Theoretical Sciences.

Bangalore (India).

Closing date: 1 January 2017.

<https://www.mathjobs.org/jobs/jobs/8896>

Ramón y Cajal contracts.

Research contracts in Spanish centers with future possibility of a steady contract.

Spain.

Closing date: 24 January 2017.

<http://www.idi.mineco.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccb5d52ffeb801432ea0/?vgnnextoid=5996c7f1cc057510VgnVCM100001d04140aRCRD>

Tenure track Assistant Professor in pure Mathematics.

Department of Mathematics.

University of Rochester (New York, United States).

Closing date: Open until filled.

<http://www.all-acad.com/Job/J0218389>

Two positions in Mathematics.

One assistant professor and one full professor at Facultad de Ciencias Exactas y Naturales y Agrimensura.

Universidad Nacional del Nordeste (Argentina).

Closing date: Open until filled.

lucini@exa.unne.edu.ar

Faculty positions in Mathematics.

Area of Mathematics.

Universidad Nacional de Tierra del Fuego (Argentina).

Closing date: Open until filled.

fdobarro@untdf.edu.ar

Assistant Professor.

Department of Mathematical Sciences.

Binghamton University (New York, United States).

Closing date: Open until filled.

<https://www.mathjobs.org/jobs/jobs/9300>

Tenure Track - Frontiers of Geometry.

Areas of interest include, but are not restricted to: algebraic geometry (especially derived algebraic geometry), arithmetic geometry, modern homotopy theory, topological field theory.

University of Massachusetts Amherst (Massachusetts, United States).

Closing date: Open until filled.

<http://www.all-acad.com/Job/C1810923>

Visiting Opportunities at ICTP.

ICTP's Mathematics section offers research opportunities for outstanding mathematicians from developing countries, for short and long-term visits.

Visiting Fellowships are open to mathematicians of any age and nationality. They are intended for short visits to ICTP (1 to 3 months). Visiting Fellows must have a PhD in mathematics prior to the start of their Fellowship.

Closing date: 7 January 2017.

<https://www.ictp.it/research/math.aspx>

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

Fields Medal 2018.

Fields Medal award **Closing date: 31 December 2016.**

<http://www.mathunion.org/general/prizes/nomination-guidelines/>

<https://www.caims.ca/content/2017-caims-fields-industrial-mathematics>

Rolf Nevannlina award.

The Rolf Nevanlinna Prize is awarded once every 4 years at the International Congress of Mathematicians, for outstanding contributions in Mathematical Aspects of Information Sciences including:

All mathematical aspects of computer science, including complexity theory, logic of programming languages, analysis of algorithms, cryptography, computer vision, pattern recognition, information processing and modelling of intelligence. Scientific computing and numerical analysis. Computational aspects of optimization and control theory. Computer algebra. **Closing date: 31 December 2016.**

<http://www.mathunion.org/general/prizes/nomination-guidelines/>

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>

CAIMS-Fields Industrial Mathematics Prize.

The Canadian Applied and Industrial Mathematics Society (CAIMS) and the Fields Institute would like to invite nominations for the CAIMS-Fields Industrial Mathematics Prize. This prize is to be awarded to a researcher in recognition of exceptional research in any branch of industrial mathematics, interpreted broadly. The nominee's research should have been conducted primarily in Canada. **Closing date: January 2017.**

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

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/>

APEX Awards.

In partnership with the British Academy, the Royal Academy of Engineering and the Royal Society (the Academies) and with generous support from the Leverhulme Trust, the APEX award (Academies Partnership in Supporting Excellence in Cross-disciplinary research award) scheme offers established independent researchers, with a strong track record in their respective area, an exciting opportunity to pursue genuine interdisciplinary and curiosity-driven research to benefit wider society. **Deadline: 13 January 2017.**

<https://royalsociety.org/grants-schemes-awards/grants/apex-awards/>

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 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>

Interesting news and publications

Journal of Geometric Mechanics (JGM).

Volume 8, Number 4, December 2016.

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

th.es.pdf

IMU-Net 80.

November 2016.

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

New AIMS Journal.

New open access journal.

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

ICMAT Newsletter.

13th number.

<https://www.icmat.es/newsletter/2016/thirteen>

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

J. de Lucas and A. M. Grundland: *A Lie systems approach to the Riccati hierarchy and partial differential equations.*

1612.00256

[nlin.SI, math.DG, math.DS, 34A26 (primary), 34A05, 34A34 (secondary)]

Angel Ballesteros, Francisco J. Herranz, Fabio Musso and Pedro Naranjo: *The κ -(A)dS quantum algebra in (3+1) dimensions.*

1612.03169

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

W. Sarlet, T. Mestdag and G. Prince: *A generalization of Szebehely's inverse problem of dynamics in dimension three.*

1612.04638

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

M. de León and C. Sardón: *Cosymplectic and contact structures to resolve time-dependent and dissipative hamiltonian systems.*

1612.06224

[math-ph, math.MP]

J. F. Cariñena, J. Clemente-Gallardo, J. A. Jover-Galtier and G. Marmo: *Tangent bundle geometry from dynamics: application to the Kepler problem.*

1612.07484

[math-ph, math.MP, 37J05, 37C27, 70H03]

M. Farré Puiggalí and T. Mestdag: *The inverse problem of the calculus of variations and the stabilization of controlled Lagrangian systems.*

1602.01673 (version 2)

[math-ph, math.DS, math.MP, math.OC, 70H03, 70Q05, 49N45]

Eduardo García-Toraño Andrés and Tom Mestdag: *Un-Reduction of Systems of Second-Order Ordinary Differential Equations.*

1606.07649 (version 2)

[math.DG, math-ph, math.MP, 34A26, 37J15, 70H33, 70G65]

Jordi Gaset, Pedro D. Prieto-Martínez and Narciso Román-Roy: *Variational principles and symmetries on fibered multisymplectic manifolds.*

1610.08689 (version 2)

[math-ph, math.MP, 70S10, 70S05, 70H50, 49S05, 53D42, 55R10]

Network's collaborators preprints and papers

James Benn, Gerard Misiolek and Stephen C. Preston: *The exponential map of the group of area-preserving diffeomorphisms of a surface with boundary.*

1611.09993

[math.DG]

Sumanto Chanda, G. W. Gibbons and Partha Guha: *Jacobi-Maupertuis-Eisenhart metric and geodesic flows.*

1612.00375

[math-ph, gr-qc, math.MP, 53C60, 58B20]

Miguel Castillo-Celeita and David J. Fernandez C: *The good, the bad and the ugly coherent states through polynomial Heisenberg algebras.*

1612.01953

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

Samuel Lin and Benjamin Schmidt: *Manifolds with many hyperbolic planes.*

1612.02022

[math.DG]

Óscar García-Prada and Graeme Wilkin: *Action of the mapping class group on character varieties and Higgs bundles.*

1612.02508

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

Joaquim Gomis and Paul K. Townsend: *The Galilean Superstring.*

1612.02759

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

R. Sinuvasan, A. Paliathanasis, R. M. Morris and P. G. L. Leach: *Solution of the Master Equation for Quantum Brownian Motion given by the Schrödinger Equation.*

1612.04070

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

Matteo Petrera and Yuri B. Suris: *A construction of commuting systems of integrable symplectic birational maps. Lie-Poisson case.*

1612.04349

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

Andreas Fring and Thomas Frith: *Metric versus observable operator representation, higher spin models.*

1612.06122

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

Óscar García-Prada and André Oliveira: *Maximal Higgs bundles for adjoint forms via Cayley correspondence.*

1612.06621

[math.DG]

James Montaldi and Oleg G. Smolyanov: *Feynman path integrals and Lebesgue-Feynman measures.*

1612.06657

[math-ph, math.MP, 81S40, 28C20, 46G12]

F. Ares, J. G. Esteve, F. Falceto and A. R. de Queiroz: *Entanglement entropy and Möbius transformations for critical fermionic chains.*

1612.07319

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

Sumanto Chanda, G. W. Gibbons and Partha Guha: *Jacobi-Maupertuis metric and Kepler equation.*

1612.07395

[math-ph, gr-qc, math.MP, 70H06, 53D25, 53B20, 70F16]

Kumar Abhinav and Partha Guha: *Quasi-Integrability of The KdV System.*

1612.07499

[math-ph, math.MP]

M. Gadella, S. Kuru and J. Negro: *The hyperbolic step potential: Antibound states, SUSY partners and Wigner time delays.*

1612.07719

[math-ph, math.MP, quant-ph, 81Q05]

Vladimir I. Man'ko, Giuseppe Marmo, Franco Ventriglia and Patrizia Vitale: *Metric on the space of quantum states from relative entropy. Tomographic reconstruction.*

1612.07986

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

Damien Calaque: *Shifted cotangent stacks are shifted symplectic.*

1612.08101

[math.AG, math.AT, math.SG]

A. C. Casimiro, S. Ferreira and C. Florentino: *Principal Schottky Bundles over Riemann surfaces.*

1612.08662

[math.DG, math.AG, math.CV, math.RT, 14H70 30F10 32CXX]

A. B. Cruzeiro, D. D. Holm and T. S. Ratiu: *Momentum Maps and Stochastic Clebsch Action Principles.*

1604.04554 (version 2)

[math-ph, math.MP, 70H30, 58E30, 58J65, 35Q35, 76M35, 60H30]

Simonetta Abenda: *On a family of KP multi-line solitons associated to rational degenerations of real hyperelliptic curves and to the finite non-periodic Toda hierarchy.*

1605.00995 (version 3)

[math-ph, math.MP, 37K40, 37K20, 14H50, 14H70]

Andrzej J. Maciejewski, Wojciech Szumiński and Maria Przybylska: *Note on integrability of certain homogeneous Hamiltonian systems in 2D constant curvature spaces.*

1606.01084 (version 2)

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

Henry Kießler and Dirk Kreimer: *Diagrammatic Cancellations and the Gauge Dependence of QED.*

1607.05729 (version 4)

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

N. Aizawa and J. Segar: *Aspects of infinite dimensional ℓ -super Galilean conformal algebra.*

1607.07147 (version 2)

[math-ph, math.MP]

Other Conferences

QUANTMOD-Quantization and Moduli Spaces.

9–13 January 2017, Luxembourg.

<http://math.uni.lu/quantmod/>

11th Young Researchers workshop on Geometry, Mechanics and Control.

12–14 January 2017, Tenerife, Islas Canarias, Spain.

<http://gmcnet.webs.u11.es/>

Abel in Barcelona.

16 January 2017, Barcelona, Spain.

<http://abelinbcn.espais.iec.cat/>

Iberoamerican conference on Geometry, Mechanics and Control.

16–20 January 2017, Tenerife, Islas Canarias, Spain.

<http://gmcnet.webs.u11.es/>

Current Developments in Mathematical Fluid Dynamics: Regularity, Instabilities, and Turbulence .

24–27 January 2017. Providence. USA.

https://icerm.brown.edu/topical_workshops/tw17-2-mfd/

Perspectives in Geometry- In memory of Paolo Bartolomeis.

26–28 January 2017. Florence, Italy.

<https://sites.google.com/site/perspectivesingeometry/home>

Bangkok Workshop on Discrete Geometry and Statistics.

30 January-3 February 2017. Bangkok. Thailand.

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

MFO Workshop Discrete Geometry .

9–15 April 2016, Oberwolfach, Germany.

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

Spring School ContrOpt 2017 : Control and Optimization.

15–19 May 2017, Monastir, Tunisia.

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

Complex Geometry, Dynamical Systems and Foliation Theory.

21–16 May 2017, Singapore.

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

Methods in Geometry and Physics.

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

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

AIM workshop Mathematical questions in wave turbulence theory.

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

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

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/levicivitaistituto/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