

GMC Network Infosheet

August 2018



Geometry, Mechanics and Control Network Infosheet

August 2018

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Network's activities

XIII International Young Researchers Workshop on Geometry, Mechanics and Control.

6–8 December 2018, Coimbra, Portugal.

<http://www.uc.pt/en/congressos/13yrw>

Special Session “Poisson Geometry and Mathematical Physics” at II Joint Meeting of Mathematical Societies RSME-SEMA-SBM-SBMAC.

11–14 December 2018, Cádiz, Spain.

<http://spabrazmathcadiz18.uca.es/web/Congreso/?lang=en&page=s/s/06>

Special Session “Estructuras geométricas aplicadas a mecánica clásica, teoría de control e ingeniería” at Con- greso Bienal de la Real Sociedad Matemática Española.

4–8 February 2019, Santander, Spain.

<http://2019.bienalrsme.com/sesiones-especiales>

Other Conferences

XXVII International Fall Workshop on Geometry and Physics.

3–7 September 2018, Sevilla, Spain.

<http://congreso.us.es/ifwgp/>

Workshop on multisymplectic geometry and applica- tions.

6–8 September 2018, Metz, France.

<http://www.iecl.univ-lorraine.fr/~Camille.Laurent-Gengoux/ConfGEMS/programmeGEMS.html>

INdAM Workshop on Poisson Geometry and Higher Structures.

10–14 September 2018, Rome, Italy.

<http://www1.mat.uniroma1.it/ricerca/convegna/2018/hippo2018/>

Homotopy algebras, deformation theory and quantiza- tion.

16–22 September 2018, Bedlewo, Poland.

<http://www.impan.pl/18-homotopy>

Geometric Analysis and Mathematical Physics.

17–21 September 2018, Oldenburg, Germany.

<https://www.uni-oldenburg.de/geometric-analysis-and-mathematical-physics>

Analysis of Differential Operators on Manifolds.

24–26 September 2018, Freiburg im Breisgau, Germany.

<http://home.mathematik.uni-freiburg.de/murro/workshop/index.html>

CRM-PCTS Workshop on Critical Phenomena in Statistical Mechanics and Quantum Field Theory.

3–5 October 2018, Princeton, United States.

www.crm.umontreal.ca/2018/CRMPCTS18/index_e.php

Hamiltonian systems, from topology to applications through analysis I.

8–12 October 2018, Berkeley, California, USA.

<http://www.msri.org/workshops/871>

International Workshop on Geometric Quantization and Applications.

8–12 October 2018, Marseille Luminy, France.

<https://conferences.cirm-math.fr/1867.html>

Quantum Information and Quantum Statistical Mechanics.

15–19 October 2018, Montréal, Canada.

www.crm.umontreal.ca/2018/Quantique18/index_e.php

Geometric aspects of noncommutative principal bundles.

15–26 October 2018, Marseille Luminy, France.

<https://conferences.cirm-math.fr/2177.html>

Workshop on dynamical systems, calculus of variations and control.

8–9 November 2018, Firenze, Italy.

<http://wp.maths.usyd.edu.au/igs/workshops/integrable-systems-2018/>

Hamiltonian systems, from topology to applications through analysis II.

26–30 November 2018, Berkeley, California, USA.

<http://www.msri.org/workshops/872>

Workshop on Integrable Systems.

29–30 November 2018, Sydney, Australia.

<http://events.dimai.unifi.it/DSCVC2018/>

Workshop on Manifolds.

3–7 December 2018, Cambridge, UK.

<http://www.newton.ac.uk/event/hhhw04>

Variational problems in Geometry and Mathematical Physics, Winter School.

7–10 January 2019, Leeds, United Kingdom.

<http://www1.maths.leeds.ac.uk/~pmtgk/ukjapan2019/home.html>

Workshop on Differential Geometry in the Large.

04–15 February 2019, Victoria, Australia.

<https://www.matrix-inst.org.au/events/australian-german-workshop-on-differential-geometry-in-the-large/>

Job offers, fellowships and supports

Ph.D. offers

PhD funding “Concepción Arenal”.

University of Cantabria (Santander, Spain)

Closing date: 4 September 2018.

<http://web.unican.es/investigacion/convocatorias/detalle?c=314&a=245>

PhD position in Mathematics.

Marie Curie Individual Fellowship 2018.

BCAM (Bilbao, Spain).

Closing date: 12 September 2018.

<https://www.bizkaiatalent.eus/en/profesionales/oportunidades-de-empleo/?id=1997>

Doctoral candidate in Mathematics.

University of Luxembourg (Luxembourg)

Closing date: 15 September 2018.

<http://recruitment.uni.lu/en/details.html?nPostingTargetId=25699>

Stipends for international PhD students.

University of Szczecin (Poland)

Closing date: 15 September 2018.

<http://wmf.usz.edu.pl/en/stipends-international-phd-students/>

Open doctoral positions in Mathematics.

13 doctoral positions.

Aachen University (Germany).

Closing date: 1 October 2018.

<https://www.aices.rwth-aachen.de/en/irtg/open-positions>

Doctoral candidate (PhD student) in the Systems Control Group.

University of Luxembourg (Luxembourg)

Closing date: Open until filled.

<https://academicpositions.es/ad/university-of-luxembourg/2018/doctoral-candidate-phd-student-in-the-systems-control-group-m-f/116152>

Postdoctoral fellowships

FRIAS Cofund Fellowship Programme.

Freiburg Institute for Advanced Studies, Germany

Closing date: 15 September 2018.

http://www.frias.uni-freiburg.de/en/funding-programmes/cofund?set_language=en

Sonata Bis funding.

Addressed to researchers wanting to establish a new research team. Poland

Closing date: 17 September 2018.

<http://www.ncn.gov.pl/finansowanie-nauki/konkursy/typy/7?language=en>

“la Caixa” Junior Leader: Postdoctoral fellowships programme.

22 postdoctoral fellowships, to conduct a research project at accredited centres.

Spain and Portugal.

Closing date: 26 September 2018.

<https://obrasociallacaixa.org/en/investigacion-y-becas/programa-de-becas-de-posgrado/becas-de-posgrado/becas-postdoctorales-junior-leader/subprograma-incoming>

Two postdoctoral positions in Mathematics.

ICMAT (Madrid, Spain)

Closing date: 30 September 2018.

https://www.icmat.es/HumanResources/ICMat_Posdoc_Computational_2018

Postdoctoral position in complex and symplectic geometry.

University of Florence (Italy)

Closing date: 10 October 2018.

<https://titulus.unifi.it/albo/viewer?view=files%2F002788389-UNFICLE-d6490c75-8ecb-46c8-a627-9f6e1ff7d1a8-000.pdf>

Postdoctoral positions in Mathematics.

IAS School of Mathematics, Princeton, United States

Closing date: 1 December 2018.

<https://www.math.ias.edu/administration/applications>

High dimensional geometric algorithms.

CWI (Amsterdam, Netherlands)

Closing date: Open until filled.

<http://homepages.cwi.nl/~dadush/ad/phd-positions.html>

Postdoctoral associate in Mathematics.

Boston University (Massachusetts, United States)

Closing date: 1 December 2018.

<https://simonscollab.icerm.brown.edu/open-positions/>

Postdoctoral fellowships in algebraic geometry and mathematical sciences.

Harvard University

Closing date: Open until filled.

<http://cmsa.fas.harvard.edu/jobs/>

Postdoctoral positions in Mathematics.

Einstein Institute of Mathematics, Jerusalem, Israel

Closing date: Open until filled.

<https://mathematics.huji.ac.il/book/faculty-positions-0>

Research scientist in Mathematics.

Massachusetts Institute of Technology (Massachusetts, United States)

Closing date: Open until filled.

<https://simonscollab.icerm.brown.edu/open-positions/>

Humboldt research fellowship for postdoctoral researchers.

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.

University of Reading, United Kingdom

Closing date: Open.

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

Offers for researchers

Associate professor (profesor titular) in Applied Mathematics.

Universidad Politécnica de Cartagena (Spain)

Closing date: 6 September 2018.

http://www.upct.es/convocatorias/actpdi/detalle.php?id_cat=1&id=138

Associate professor (profesor titular) in Applied Mathematics.

University of La Rioja (Logroño, Spain)

Closing date: 7 September 2018.

http://www.unirioja.es/servicios/sgpr/np_pdi/funcionario/2018tu1a14/index.shtml

Scientific Director of the Basque Center for Applied Mathematics (BCAM).

BCAM (Bilbao, Spain)

Closing date: 21 September 2018.

<http://www.ikerbasque.net/sites/default/files/files/2018%20BCAM%20Scientific%20Director%20Call.pdf>

Professorship in Mathematics.

Carl von Ossietzky University of Oldenburg (Germany)

Closing date: 26 September 2018.

<https://uol.de/stellen/?stelle=66178>

Associate professor positions in Mathematics.

Nagoya University (Japan)

Closing date: 28 September.

<https://www.math.nagoya-u.ac.jp/en/job/2018/faculty-1.html>

Lecturer in Pure Mathematics.

Lancaster University (United Kingdom)

Closing date: 30 September 2018.

<https://hr-jobs.lancs.ac.uk/Vacancy.aspx?id=4755>

Professor in Mathematics (geometry).

University of Luxembourg (Luxembourg)

Closing date: 30 November 2018.

<http://recruitment.uni.lu/en/details.html?nPostingTargetID=23999>

Mathematics adjunct instructors.

Portland State University, Oregon, United States

Closing date: Open until filled.

<https://jobs.hrc.pdx.edu/postings/26062>

Assistant professor in Mathematics.

Institute for Computational and Experimental Research in Mathematics.

Brown University (Rhode Island, United States).

Closing date: Open until filled.

<https://simonscollab.icerm.brown.edu/open-positions/>

Assistant professor in algebraic geometry.

Geometry and Mathematical Physics Group.

SISSA (Trieste, Italy).

Closing date: Open until filled.

<https://www.mathjobs.org/jobs/jobs/11863>

Offers for visiting researchers

SAMSI visiting research fellows.

Statistical and Applied Mathematical Sciences Institute, USA.

Applications from junior and senior researchers.

Closing date: Open.

<https://www.samsi.info/participating/visiting-research-fellows/>

Research in pairs in the Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Between 2 and 4 people, from 2 weeks to 3 months.

Closing date: Six 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, Canada.

Up to 8 researchers for periods of 1 to 2 weeks.

Closing date: 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, Canada.

Teams of 2 to 4 researchers for 1 to 2 weeks.

Closing date: 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, France.

2 to 3 researchers for 1 to 2 weeks. CIRM subsidizes board and lodging for people not based in the region.

Closing date: Open all year.

<https://www.cirm-math.com/research-in-pairs.html>

Visiting the ICMAT.

Instituto de Ciencias Matemáticas, Madrid, Spain.

Researchers for a period 1 to 12 months.

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, Italy.

2-3 people for working on a project from 1 to 6 weeks.

Closing date: Open.

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

Visiting scholar opportunity in Cambridge.

University of Cambridge, United Kingdom.

Scholars and fellows for development of research, teaching and collaboration.

Closing date: Open.

<https://www.educ.cam.ac.uk/about/visiting-scholars/>

Small team visiting the CRM.

Centre de Recerca Matemàtica, Catalonia, Spain.

Any time between 6 and 12 months before the start of the desired stay.

Closing date: Open.

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

Visiting research fellow in Kent State University.

Mathematics Department-KSU, Ohio, USA.

Visiting for scholar researchers.

Closing date: Open.

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

Financial support for research projects and conferences

Support for training in research.

Centre International de Mathématiques Pures et Appliquées (CIMPA), France.

Deadline: 3 July 201x for projects in period September 201x-February 201(x+1).

https://www.cimpa.info/en/support_for_training_in_research/call_for_applications

Call for Projects of CIMPA Research Schools 2020.

Centre International de Mathématiques Pures et Appliquées, France.

Deadline: September, 10 2018.

<https://www.cimpa.info/node/41>

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: March 1st, October 1st and December 1st. Three years ahead.

<http://tinyurl.com/msri-progprop>

Hot Topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: March 15, October 15 and December 15.

<http://tinyurl.com/msri-htw>

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: March 15, October 15 and December 15 .

<http://tinyurl.com/msri-sgs>

Support for workshop organization.

Banff International Research Station.

Deadline: No precise deadline.

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

Propose a workshop in the Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Deadline: Open.

<https://www.mfo.de/scientific-programme/meetings/workshop>

Mathematical and physical sciences funding.

National Science Foundation.

Deadline: No precise deadline.

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

Hosting a workshop at AIMS South Africa.

Contributions to the cost of workshops which falls within one of AIMS's research focus areas.

Deadline: No precise deadline.

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

International Mathematical Union-Conference support program.

Partial support for conferences organized in developing or economically disadvantaged countries.

Deadline: Several calls.

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

Preprints and papers

Network's members

Narciso Román-Roy: *Properties of Multisymplectic Manifolds.*

1807.11774

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

Leonardo J. Colombo and Dimos V. Dimarogonas: *Motion Feasibility Conditions for Multi-Agent Control Systems on Lie Groups.*

1808.04612

[cs.SY, cs.MA, math.DS, math.OC]

X. Gràcia, J. de Lucas, M. C. Muñoz-Lecanda and S. Vilariño: *Multisymplectic structures and invariant tensors for Lie systems.*

1808.06240

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

Miguel C. Muñoz-Lecanda: *On some aspects of the geometry of non integrable distributions and applications.*

1808.06704

[math.DG]

Ángel Ballesteros, Flavio Mercati: *Extended non-commutative Minkowski spacetimes and hybrid gauge symmetries.*

1805.07099

[hep-th]

Network's collaborators

Luis Álvarez-Cónsul, Mario García-Fernández and Óscar García-Prada: *On the Kähler-Yang-Mills-Higgs equations.*

1807.10691

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

Matías del Hoyo and Rui Loja Fernandes: *On deformations of compact foliations.*

1807.10748

[math.DG]

Francis Bischoff, Henrique Bursztyn, Hudson Lima and Eckhard Meinrenken: *Deformation spaces and normal forms around transversals.*

1807.11153 (version 2)

[math.DG, math.SG]

Katarzyna Grabowska and Janusz Grabowski: *On n -tuple principal bundles.*

1807.11341

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

Alberto S. Cattaneo, Nima Moshayedi and Konstantin Wernli: *Perturbative Quantization of*

Nonlinear AKSZ Sigma Models on Manifolds with Boundary.

1807.11782

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

Benjamin Hoffman, Reyer Sjamaar and Chenchang Zhu: *Stacky Hamiltonian actions and symplectic reduction.*

1808.01003

[math.SG, math.DG]

Tomoki Ohsawa: *Symplectic Reduction and the Lie-Poisson Dynamics of N Point Vortices on the Plane.*

1808.01769

[math-ph, math.MP, math.SG, nlin.SI, physics.flu-dyn]

Alberto S. Cattaneo, Nima Moshayedi and Konstantin Wernli: *On the Globalization of the Poisson Sigma Model in the BV-BFV Formalism.*

1808.01832

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

Arjan van der Schaft and Bernhard Maschke: *Generalized Port-Hamiltonian DAE Systems.*

1808.01845

[math.OC]

Benjamin Schmidt, Krishnan Shankar and Ralf Spatzier: *Almost Isotropic Kaehler Manifolds*.

1808.02475

[math.DG]

Jedrzej Sniatycki and Reuven Segev: *De Donder Construction for Higher Jets*.

1808.03054

[math-ph, math.MP]

Felix Finster and Niky Kamran: *Complex Structures on Jet Spaces and Bosonic Fock Space Dynamics for Causal Variational Principles*.

1808.03177

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

Richard Cushman and Jedrzej Sniatycki: *Shifting operators in geometric quantization*.

1808.04002

[math.SG]

Jean-Marc Ginoux and Jaume Llibre: *Canards Existence in FitzHugh-Nagumo and Hodgkin-Huxley Neuronal Models*.

1808.08109

[nlin.CD, math.DS]

Florio M. Ciaglia, Hans Cruz and Giuseppe Marmo: *Contact manifolds and dissipation, classical and quantum*.

1808.06822

[math-ph, math.MP, physics.app-ph]

Marisa Fernández, Anna Fino, Alexei Kovalev and Vicente Muñoz: *A compact G_2 -calibrated manifold with first Betti number $b_1 = 1$* .

1808.07144

[math.DG]

Jean-Marc Ginoux and Jaume Llibre: *Canards Existence in Memristor's Circuits*.

1808.09022

[math.DS]

Nathaniel J. Merrill, Zheming An, Sean T. McQuade, Federica Garin, Karim Azer, Ruth E. Abrams and Benedetto Piccoli: *Stability of Metabolic Networks via Linear-In-Flux Expressions*.

1808.08263

[math.OC]

N. Aizawa, P. S. Isaac and J. Segar: $\mathbb{Z}_2 \times \mathbb{Z}_2$ generalizations of $\mathcal{N} = 1$ superconformal Galilei algebras and their representations.

1808.09112

[math-ph, math.MP]

Links of interest

The GMC network.

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

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

Journal of Geometric Mechanics (JGM).

Volume 10, Issue 2, 2018.

<http://aimsciences.org/journal/1941-4889/2018/10/2>

IMU-Net 90b.

August 2018.

<https://www.mathunion.org/fileadmin/IMU/Organization/imu-net/pdfs/2018/IMU-Net-90b.pdf>

ICMAT Newsletter.

17th number. Second semester 2018.

<https://www.icmat.es/outreach/newsletter/num17>

New AIMS Journal.

New open access journal.

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

International Center of Pure and Applied Mathematics (CIMPA).

<https://www.cimpa.info/>

Spanish math journals.

http://www.rsme.es/component/option,com_weblinks/catid,51/Itemid,23/

Reports@SCM journal.

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

Mathematics in Europe.

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

Online textbooks: MIT Open courseware.

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

Jobs for Mathematicians.

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

Academic positions in Spain, France and Belgium.

Mathematics and Physics related areas.

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

Academic jobs in Mathematics in Europe.

PhD, post doc positions, research assistant, etc.

<http://academicpositions.eu/>

Academic jobs in Mathematics in the UK.

PhD, post doc positions, research assistant, etc.

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

Postdocs in Mathematics worldwide.

PhD, post doc positions, research assistant, etc.

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

Academic jobs in Mathematics worldwide.

PhD, post doc positions, research assistant, etc.

<https://www.postdocjobs.com/>

Academic jobs in Mathematics in Spain.

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

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

Academic jobs in Mathematics.

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

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

SIAM Activity Group on Control and Systems Theory Prize.

<https://www.siam.org/Prizes-Recognition/Activity-Group-Prizes/Detail/SIAG-Control-and-Systems-Theory-Prize>

SIAM Activity Group on Control and Systems Theory Best SICON Paper Prize.

<https://www.siam.org/Prizes-Recognition/Activity-Group-Prizes/Detail/SIAG-CST-Best-SICON-Paper-Prize>

International Mathematical Union Awards and Prizes.

<https://www.mathunion.org/imu-awards/imu-awards-prizes-and-special-lecture>

Other Prizes of International Mathematical Union.

<https://www.mathunion.org/imu-awards/other-prizes>

The Shaw Prize.

<http://www.shawprize.org/en/shaw.php?tmp=2&twoid=77>

European Mathematical Society Prizes.

<http://euro-math-soc.eu/prizes-european-mathematical-society>

Fermat Prize.

<https://www.math.univ-toulouse.fr/spip.php?rubrique107&lang=en>

Society for Industrial and Applied Mathematics Prizes.

<https://www.siam.org/prizes/>

Noether Lectures Award.

<https://sites.google.com/site/awmmath/programs/noether-lectures>

The Royal Society Grants.

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

The Royal Society's medals and award.

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

NOTE: If you want to include information in this info-sheet, please send it to gmactivities@gmail.com