

GMC Network Infosheet

December 2018



Geometry, Mechanics and
Control Network
Infosheet

December 2018

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Network's activities

XX Winter Meeting on Geometry, Mechanics and Control.

31 January and 1 February 2019, Zaragoza, Spain.
<https://tinyurl.com/ycxoroy9>

Special Session "Estructuras geométricas aplicadas a mecánica clásica, teoría de control e ingeniería" at Congreso Bienal de la Real Sociedad Matemática Española.
4–8 February 2019, Santander, Spain.

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

CIMPA School "The Geometry of Mechanics".
15–26 July 2019, Ibarra, Ecuador.

<https://www.cimpa.info/en/node/6194>

Other Conferences

Variational Problems in Geometry and Mathematical Physics.

7–10 January 2019, Leeds, United Kingdom.

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

Differential Geometry and Lie Theory in the Categorical Setting.

07–11 January 2019, Marseille Luminy, France.

<https://conferences.cirm-math.fr/2200.html>

The 57th IEEE Conference on Decision and Control.

9–10 January 2019, New Delhi, India.

<http://icc.org.in/2019/>

Groups and Geometries.

21–25 January 2019, Marseille Luminy, France.

<https://conferences.cirm-math.fr/1920.html>

3rd Bangkok workshop on Discrete Geometry Dynamics and Statistics.

21–25 January 2019, Bangkok, Thailand.

<http://www.thaihep.phys.sc.chula.ac.th/BKK2019DSCR/>

Workshop on Differential Geometry in the Large.

4–15 February 2019, Victoria, Australia.

<https://tinyurl.com/yas5ajpq>

Geometric Analysis Meets Geometric Topology.

25–28 February 2019, Heidelberg, Germany.
<https://www.conference-service.com/conferences/geometry-and-topology.html>

Geometry and Mathematical Physics Workshop 2019.

27–30 March 2019, Leicestershire, United Kingdom.
<https://sites.google.com/site/gmplboro/gmp2019>

Integrability and Conformal Field Theory.

29–30 March 2019, Oxford, United Kingdom.
<https://sites.google.com/view/icft2019>

Geometry at Infinity.

1–5 April 2019, Münster, Germany.
<https://www.spp2026.de/news/detail/spp-conference-geometry-at-infinity/>

Integrability and Randomness in Mathematical Physics and Geometry.

8–12 April 2019, Marseille Luminy, France.
<https://www.chairejeanmorlet.com/2019-1-grava-bufetov-2104.html>

Algebraic and Geometric Aspects in Quantum Field Theory.

16–18 April 2019, Freiburg im Breisgau, Germany.

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

G_2 Geometry and Related Topics.

5–10 May 2019, Oaxaca, Mexico.
<https://www.birs.ca/events/2019/5-day-workshops/19w5145>

Finite Dimensional Integrable Systems in Geometry and Mathematical Physics.

7–11 May 2019, Shanghai, China.
<http://math.sjtu.edu.cn/FDIS2019/>

Variational Problems and the Geometry of Submanifolds.

27–31 May 2019, Marseille Luminy, France.
<https://conferences.cirm-math.fr/1936.html>

SIAM Conference on Applications of Dynamical Systems.

19–23 May 2019. Snowbird, Utah, USA.
<http://www.siam.org/meetings/calendar.php>

Women in Geometry 2.

23–28 Jun 2019, Oaxaca, Mexico.
<https://www.birs.ca/events/2019/5-day-workshops/19w5115>

International Conference on Mathematics and Mechanics.

8–9 Jun 2019, Nice, France.
<http://mathematics.conference-site.com/>

Job offers, fellowships and supports

Ph.D. offers

Excellence grant for foreigner students.

University of Santiago de Chile, Chile
Closing date: 6 January 2019.
<https://postgrado.usach.cl/es/nueva-beca-de-excelencia-para-extranjeros-y-extranjeras>

Funded PhD positions in Austria.

Institute of Science and Technology Austria
Closing date: 8 January 2019.
<https://phd.pages.ist.ac.at/phd-admissions/>

Funded doctoral positions - "la Caixa" IN-PhINIT programme.

ICMAT, Madrid, Spain
Closing date: 6 February 2019.
https://www.icmat.es/resources/employment/INPhINIT_La-Caixa

PhD position in geometry.

Funded by the project “Calabi-Yau manifolds: families, fibrations, and degenerations”.
Loughborough University, United Kingdom.
Closing date: 15 February 2019.
<https://www.lboro.ac.uk/science/study/postgraduate-research/studentships/>

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>

Open PhD Positions in Geometry.

Max Planck Institute For Informatics, Saarbrücken, Germany

Closing date: Open until filled.

<http://euro-math-soc.eu/job/open-phd-positions-0>

PhD position in noncommutative differential geometry.

Swansea University, United Kingdom

Closing date: Open until filled.

<https://www.findaphd.com/search/ProjectDetails.aspx?PJID=97585>

Doctoral candidate in applied algebraic geometry.

Aalto University, Espoo, Finland

Closing date: Open until filled.

<https://academicpositions.es/ad/aalto-university/2018/doctoral-candidate-in-applied-algebraic-geometry/121056>

Postdoctoral fellowships

Postdoctoral research associate in algebraic geometry.

University of Cambridge, United Kingdom

Closing date: 7 January 2019.

<http://www.jobs.cam.ac.uk/job/19392/>

SISSA Mathematical Fellowships.

SISSA, Trieste, Italy

Closing date: 8 January.

<http://math.sissa.it/content/sissa-mathematical-fellowships>

Postdoctoral position in geometry.

ERC Grant "Analysis of moving incompressible fluid interfaces".

Institute of Mathematics of the University of Seville, Spain.

Closing date: 15 January 2019.

<https://www.imus.us.es/es/convocatoria/1260>

Juan de la Cierva-incorporación 2018 fellowships.

Postdoctoral positions for researchers.

Spanish research centres and universities.

Closing date: 29 January 2019.

<https://tinyurl.com/ychpufo6>

Juan de la Cierva-formación 2018 fellowships.

Postdoctoral positions for junior researchers.

Spanish research centres and universities.

Closing date: 31 January 2019.

<https://tinyurl.com/y7zd73xh>

Postdoctoral position in control theory.

University of Graz, Austria

Closing date: 28 February 2019.

<https://mathematik.uni-graz.at/en/research/erc-advanced-grant-project/jobs/>

Postdoctoral positions in geometry.

Heidelberg University, Germany

Closing date: Open until filled.

<https://www.mathjobs.org/jobs/jobs/12713>

Postdoctoral fellowships in algebraic geometry and mathematical sciences.

Harvard University, Massachusetts, United States

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/>

Research position 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/>

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

University professor of algebraic geometry.
University of Vienna, Austria
Closing date: 7 January 2019.
<https://personalwesen.univie.ac.at/en/jobs-recruiting/professorships/detail-page/news/algebraic-geometry/>

<http://www.ciencia.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnnextoid=498d32e144e77610VgnVCM1000001d04140aRCRD>

Professor of Mathematics.
University of Bath, United Kingdom
Closing date: 7 January 2019.
<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=CC6245>

Assistant professor in Mathematics.
Deusto University, Bilbao, Spain
Closing date: Open until filled.
<https://deusto.talentclue.com/es/node/38171378/4590/modal>

Assistant/Associate professor in Mathematics.
Heriot-Watt University, Edinburgh, United Kingdom
Closing date: 9 January 2019.
https://www.hw.ac.uk/about/work/jobs/job_SVJDMTk3MDk.htm

Mathematics adjunct instructors.
Portland State University, Oregon, United States
Closing date: Open until filled.
<https://jobs.hrc.pdx.edu/postings/26062>

Tenure track professorship for pure mathematics.
Heidelberg University, Germany
Closing date: 28 January 2019.
<http://euro-math-soc.eu/job/tenure-track-professorship-w1-tenure-track-w3-pure-mathematics>

Tenure track position in geometry.
McMaster University, Ontario, Canada
Closing date: Open until filled.
<https://www.mathjobs.org/jobs/jobs/12720>

Ramon y Cajal 2018 fellowships.
Spanish research centres and universities
Closing date: 30 January 2019.

Tenure track positions in Mathematics.
University of Texas at Dallas, United States
Closing date: Open until filled.
<https://jobs.utdallas.edu/postings/11339>

Assistant professor in Mathematics.
Embry-Riddle Aeronautical University at Prescott, Arizona, United States
Closing date: Open until filled.
<https://www.mathjobs.org/jobs/jobs/13189>

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/>

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

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.

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

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: December 1st, March 1st and October 15. Three years ahead.

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

Hot Topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: December 1st, March 15 and October 15.

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

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: December 1st, March 15 and October 15.

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

Innovative Training Networks (Horizon 2020).

European Commission, Brussels, Belgium.

Deadline: 15 February 2019.

<https://tinyurl.com/ya5vpaj7>

Research and Innovation Staff Exchange (Horizon 2020).

European Commission, Brussels, Belgium.

Deadline: 2nd April 2019.

<https://tinyurl.com/ybcdrc1r>

Support for training in research (CIMPA).

Centre International de Mathématiques Pures et Appliquées, 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

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://tinyurl.com/y8p3t34j>

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

Roisin Braddell, Anna Kiesenhofer and Eva Miranda: *Cotangent models for group actions on b-Poisson manifolds.*

1811.11894 (version 3)

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

Luis C. García-Naranjo and Juan C. Marrero: *The geometry of nonholonomic Chaplygin systems revisited.*

1812.01422

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

Iván Gutierrez-Sagredo, Ángel Ballesteros and Francisco J. Herranz: *Drinfel'd double structures for Poincaré and Euclidean groups.*

1812.02075

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

Robert Cardona and Eva Miranda: *On the volume elements of a manifold with transverse ze-*

roes.

1812.03800 (version 3)

[math.SG]

V. M. Jiménez, M. de León and M. Epstein: *On the homogeneity of non-uniform material bodies.*

1812.04970 (version 2)

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

Xavier Gràcia, Xavier Rivas and Narciso Román-Roy: *Constraint algorithm for singular field theories in the k-cosymplectic framework.*

1812.08487

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

Vishaal Krishnan and Sonia Martínez: *A Distributional Framework for Moving-Horizon Estimation: Stability and Privacy Guarantees.*

1812.09672

[math.OC]

Network's collaborators

Christian Blohmann and Alan Weinstein: *Hamiltonian Lie algebroids.*

1811.11109

[math.SG, math.DG]

François Gay-Balmaz and Hiroaki Yoshimura: *A Variational Formulation of Nonequilibrium Thermodynamics for Discrete Open Systems with Mass and Heat Transfer.*

1811.11665

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

N. Aizawa, I. E. Cunha, Z. Kuznetsova and F.

Toppan: *On the spectrum-generating superalgebras of the deformed one-dimensional quantum oscillators.*

1812.00873

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

Gou Nishida and Bernhard Maschke: *Topological geometric extension of Stokes-Dirac structures for global energy flows.*

1812.08786

[math.DG]

Julia Cen and Andreas Fring: *Multicomplex soli-*

tons.

1812.02111

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

A. K. Halder, Andronikos Paliathanasis and P. G. L. Leach: *Noether's Theorem and Symmetry*.

1812.03682

[math-ph, gr-qc, math.MP, physics.class-ph]

Thierry Daudé, Niky Kamran and François Nicoleau: *Stability in the inverse Steklov problem on warped product Riemannian manifolds*.

1812.07235

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

Jaime Muñoz Masqué and Luis Miguel Pozo Coronado: *First-order invariants of differential 2-*

forms.

1812.07284

[math.DG]

Yacine Chitour, Guilherme Mazanti and Mario Sigalotti: *On the gap between deterministic and probabilistic joint spectral radii for discrete-time linear systems*.

1812.08399

[math.OC, math.DS, math.PR]

Maria Días, Esteban Isasi and Luis Vásquez: *The $SU(3)$ A_1 graph and its associated quantum groupoid*.

1812.08730

[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 4, 2018.

<http://aimsciences.org/journal/1941-4889/2018/10/4>

IMU-Net 92.

November 2018.

<https://www.mathunion.org/fileadmin/IMU/Organizati%20on/imu-net/pdfs/2018/IMU-Net-92.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>

Euraxess Spain.

Researchers in motion.

<https://www.euraxess.es/spain/science-spain>

International Center of Pure and Applied Mathematics (CIMPA).

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

Spanish math journals.

http://www.rsme.es/component/option,com_webli%20nks/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>

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.madrimas.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://tinyurl.com/ydcpzrv7>

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

<https://tinyurl.com/ycjpvz6>

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