

# GMC Network Infosheet

September 2018



Geometry, Mechanics and  
Control Network  
Infosheet

September 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

**CRM-PCTS Workshop on Critical Phenomena in Sta-  
tistical Mechanics and Quantum Field Theory.**

3–5 October 2018, Princeton, United States.

[www.crm.umontreal.ca/2018/CRMPCTS18/index\\_e.php](http://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 Me-  
chanics.**

15–19 October 2018, Montréal, Canada.

[www.crm.umontreal.ca/2018/Quantique18/index\\_e.php](http://www.crm.umontreal.ca/2018/Quantique18/index_e.php)

**Geometric aspects of noncommutative principal bun-  
dles.**

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>

**International Conference "Optimal Control and Differential Games".**

12–14 December 2018, Moscow, Russia.

<http://www.mathnet.ru/eng/conf1287>

**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

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### Ph.D. offers

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**PhD positions in Mathematics.**

The Open University, Milton Keynes, United Kingdom

**Closing date: 19 October 2018.**

<http://www.mathematics.open.ac.uk/study/phd>

**PhD studentship in Mathematics.**

University of Warwick, United Kingdom

**Closing date: 5 December 2018.**

<https://www.jobs.ac.uk/job/BM0616>

**PhD studentship in Partial Differential Equations.**

University of Sussex, United Kingdom

**Closing date: 6 December 2018.**

<https://www.jobs.ac.uk/job/BMP334/>

**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](http://student-in-the-systems-control-group-m-f/116152)

**High dimensional geometric algorithms.**

CWI (Amsterdam, Netherlands)

**Closing date: Open until filled.**

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

**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-position-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>

### Postdoctoral fellowships

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**Postdoctoral positions “Viera y Clavijo”.**

University of La Laguna, Spain

**Closing date: 10 October 2018.**

[https://www.ull.es/portal/convocatorias/convocatoria/viera-y-clavijo-2018/](https://www ull.es/portal/convocatorias/convocatoria/viera-y-clavijo-2018/)

**Postdoctoral position in 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>

**2 postdoctoral positions in Mathematics.**  
Institute of Mathematics CAS, Prague, Czech Republic  
**Closing date: 15 October 2018.**  
[https://application.math.cas.cz/Positions.html#page=CALL\\_LIST](https://application.math.cas.cz/Positions.html#page=CALL_LIST)

**Postdoctoral positions in Geometry.**  
Institute of Mathematics CAS, Prague, Czech Republic  
**Closing date: 30 October 2018.**  
[https://application.math.cas.cz/Positions.html#page=CALL\\_LIST](https://application.math.cas.cz/Positions.html#page=CALL_LIST)

**Junior group leader position in Mathematics.**  
Johann Radon Institute For Computational And Applied Mathematics, Linz, Austria  
**Closing date: 31 October 2018.**  
[https://www.ricam.oeaw.ac.at/files/jobs/RICAM\\_Junior\\_Group\\_Leader\\_20180821.pdf](https://www.ricam.oeaw.ac.at/files/jobs/RICAM_Junior_Group_Leader_20180821.pdf)

**Postdoctoral positions in Mathematics.**  
IAS School of Mathematics, Princeton, United States  
**Closing date: 1 December 2018.**  
<https://www.math.ias.edu/administration/applications>

**Postdoctoral associate in Mathematics.**  
Boston University, Massachusetts, United States  
**Closing date: 1 December 2018.**  
<https://simonscollab.icerp.brown.edu/open-positions/>

**“Sonata” postdoctoral positions.**  
Polish research centres  
**Closing date: 17 December 2018.**  
<http://www.ncn.gov.pl/finansowanie-nauki/konkursy/typy/3?language=en>

## Offers for researchers

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**Teaching Associate in Mathematics.**  
University of Sheffield, United Kingdom  
**Closing date: 15 October 2018.**  
<https://www.jobs.ac.uk/job/BMQ788>

**Professor positions in Mathematics.**  
University of Warwick, United Kingdom  
**Closing date: 21 October 2018.**  
<http://euro-math-soc.eu/affiliation/departement-mathematics-university-warwick>

**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.icerp.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>

**Professor in Applied Mathematics.**  
University of Córdoba, Spain  
**Closing date: 26 October 2018.**  
[https://www.boe.es/diario\\_boe/txt.php?id=BOE-A-2018-13072](https://www.boe.es/diario_boe/txt.php?id=BOE-A-2018-13072)

**2 professor positions in Mathematics.**  
Geometry and Applied Mathematics.  
University of Málaga, Spain.  
**Closing date: 29 October 2018.**  
[https://www.boe.es/diario\\_boe/txt.php?id=BOE-A-2018-13153](https://www.boe.es/diario_boe/txt.php?id=BOE-A-2018-13153)

**Lecturer in Mathematical Physics.**

University of Melbourne, Australia

Closing date: 7 November 2018.

<http://jobs.unimelb.edu.au/caw/en/job/897238/lecturer-in-mathematical-physics>

**Tenure-track position in Mathematics.**

Duke University, North Carolina, United States

Closing date: 9 November 2018.

<https://www.mathjobs.org/jobs/jobs/12536>

**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**

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**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>

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## 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](https://www.cimpa.info/en/support_for_training_in_research/call_for_applications)

### 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](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/>

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## Preprints and papers

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### Network's members

Malte Heuer and Madeleine Jotz Lean: *Multiple vector bundles: cores, splittings and decompositions.*

1809.01484

[math.DG]

Erfan Nozari and Jorge Cortés: *Hierarchical Selective Recruitment in Linear-Threshold Brain Networks - Part I: Intra-Layer Dynamics and Selective Inhibition.*

1809.01674

[cs.SY, cs.NE, math.OC]

Stephen C. Anco, Ángel Ballesteros and María Luz Gandarias: *Global versus local superintegrability of nonlinear oscillators*.

1809.02248

[math-ph, math.MP]

Erfan Nozari and Jorge Cortés: *Hierarchical Selective Recruitment in Linear-Threshold Brain Networks - Part II: Inter-Layer Dynamics and Top-Down Recruitment*.

1809.02493

[cs.SY, cs.NE, math.OC]

Anthony Bloch, Margarida Camarinha and Leonardo Colombo: *Dynamic interpolation for obstacle avoidance on Riemannian manifolds*.

1809.03168

[math.OC, cs.SY]

Farhang Haddad Farshi, Fernando Jiménez and Sina Ober-Blöbaum: *Continuous and discrete damping reduction for systems with quadratic interaction*.

1809.05532

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

Ángel Ballesteros, Iván Gutiérrez-Sagredo and Francisco J. Herranz: *The Poincaré group as a Drinfel'd double*.

1809.09207

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

## Network's collaborators

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Pantelis A. Damianou: *Poisson brackets after Jacobi and Plucker*.

1809.04538

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

Michael S. Ruf and Christian F. Steinwachs: *Quantum effective action for degenerate vector field theories*.

1809.04601

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

Giovanni Russo and Andrew Swann: *Nearly Kähler six-manifolds with two-torus symmetry*.

1809.05304

[math.DG]

Amadeu Delshams, Antoni Guillamon and Gemma Huguet: *Quasi-periodic perturbations of heteroclinic attractor networks*.

1809.05860

[math.DS]

Paolo Aniello, Joonwoo Bae and Dariusz Chruscinski: *Quantum entropy and non-Markovian evolution*.

1809.06133

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

Jurdjevic Velimir, Markina Irina and Silva Leite Fatima: *Extremal curves on Stiefel and Grassmann manifolds*.

1809.07013

[math.OC]

Saber Jafarpour, Elizabeth Y. Huang and Francesco Bullo: *Synchronization of Kuramoto Oscillators: Inverse Taylor Expansions*.

1809.08720

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

James Montaldi and Amna Shaddad: *Generalized point vortex dynamics on  $CP^2$* .

1809.09007

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

James Montaldi and Amna Shaddad: *Non-Abelian momentum polytopes for products of  $CP^2$* .

1809.09020

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

Hendrik Grundling and Karl-Hermann Neeb: *Crossed products of  $C^*$ -algebras for singular actions with spectrum conditions*.

1809.09781

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

Giuseppe Marmo and Alessandro Zampini: *Kähler geometry on complex projective spaces via reduction and unfolding*.

1809.09993

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

Francisco Presas and Sushmita Venugopalan: *Symplectic foliated fillings of sphere cotangent bundles*.

1809.10363

[math.SG]

## Links of interest

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### **The GMC network.**

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

<http://gmcnet.webs.ull.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/](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>

### **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://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](mailto:gmactivities@gmail.com)**