

Geometry, Mechanics and Control Network Infosheet

January 2019

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GMC Network Infosheet

January 2019

Network's activities

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.

https://2019.bienalrsme.com/sites/default/files/S11-programa-bienalRSME2019_1.pdf

Minisymposium "The interplay between mathematical engineering and networked control systems" at 9th International Congress on Industrial and Applied Mathematics (ICIAM 2019).

15-19 July 2019, Valencia, Spain.

https://iciam2019.org/index.php

CIMPA School "The Geometry of Mechanics".

15–26 July 2019, Ibarra, Ecuador.

http://cimpa2019.yachaytech.edu.ec/

Other Conferences

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

Microlocal and Global Analysis, Interactions with Geometry.

4-8 March 2019, Postdam, Germany.

http://personal.psu.edu/~tuk14/Potsdam2019/

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/

International Conference on Mathematical Methods in Physics.

1-5 April 2019, Marrakech, Morocco. http://icmmp2019.doodlekit.com/home

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/

SIAM Conference on Applications of Dynamical Systems.

19–23 May 2019. Snowbird, Utah, United States of America.

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

Nonlinear Mathematical Physics.

26 May-4 June 2019, Santiago, Chile. http://www.dmcc.usach.cl/JNMP-Conference-2019/index-1.html

Variational Problems and the Geometry of Submanifolds.

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

Calabi-Yau and Geometry.

29 May-1 June 2019, Rome, Italy. http://www1.mat.uniroma1.it/ricerca/convegni/2019/CYgeometry/

Crowds: Models and Control.

3-7 June 2019, Marseille Luminy, France.

https://conferences.cirm-math.fr/1927.html

${\bf Geometry,\ Integrability\ and\ Quantization.}$

3-8 June 2019, Varna, Bulgaria.

http://www.bio21.bas.bg/conference/

International Conference on Mathematics and Mechanics.

8–9 June 2019, Nice, France.

http://mathematics.conference-site.com/

Elliptic integrable systems, special functions and quantum field theory.

16–20 June 2019, Stockholm, Sweden.

http://agenda.albanova.se/conferenceDisplay.p y?confId=6142

SIAM Conference on Computational Geometric Design.

17–19 June 2019, Vancouver, Canada.

https://www.siam.org/conferences/CM/Main/gd19

Geometry, Differential Equations and Analysis.

17-21 June 2019, Kharkiv, Ukraine. http://www.ilt.kharkov.ua/geometry2019/

SIAM Conference on Control and Its Applications.

19–21 June 2019, Chengdu, China.

https://www.siam.org/conferences/CM/Main/ct19

Women in Geometry 2.

23–28 June 2019, Oaxaca, Mexico.

https://www.birs.ca/events/2019/5-day-workshops/19w5115

8th International Conference on Engineering Mathematics and Physics.

1-3 July 2019, Ningbo, China.

http://www.icemp.org/

American Control Conference.

10–12 July 2019, Philadelphia, United States.

http://acc2019.a2c2.org

International Congress on Industrial and Applied Mathematics.

15–19 July 2019, Valencia, Spain.

https://www.iciam2019.org/

Job offers, fellowships and supports

Ph.D. offers

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

ICMAT, Madrid, Spain

Closing date: 6 February 2019.

https://www.icmat.es/resources/employment/INP

hINIT_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/postgr

aduate-research/studentships/

PhD position in Probability.

University of Zagreb, Zagreb, Croatia Closing date: 20 February 2019.

http://euro-math-soc.eu/job/phd-position-pr

obability

PhD position in Differential Geometry and Geometric Structures.

Vienna University of Technology, Austria Closing date: 28 February 2019.

https://drive.google.com/open?id=1axY5tuSn-

kHAT-ovvGyoDdqw56dUwKDH

PhD positions in mathematics.

University of Luxembourg, Luxembourg

Closing date: 1 March 2020.

http://recruitment.uni.lu/en/details.html?nPo

stingId=25556&nPostingTargetId=41799

PhD positions in Pure Mathematics and in Theoretical Physics.

Postdoctoral fellowships

${\bf Post doctoral\ Fellowships.}$

Université Toulouse, Toulouse, France

Closing date: 3 February 2019.

http://euro-math-soc.eu/job/postdoctoral-fe

llowships

Postdoctoral research positions in Pure Mathematics and in Mathematical Physics.

Higher School of Economics, Moscow, Russia

Closing date: 15 February 2019.

https://iri.hse.ru/post_math2019

Higher School of Economics, Moscow, Russia Closing date: 14 March 2019.

http://euro-math-soc.eu/job/phd-positions-pure-mathematics-and-theoretical-physics

PhD position in probability / statistical mechanics.

Universite de Fribourg, Fribourg, Switzerland Closing date: 1 September 2019.

http://homeweb.unifr.ch/manolesc/Pub/Affice% 20dotorat%20phd.pdf

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

University of Luxembourg, Luxembourg

Closing date: Open until filled.

https://academicpositions.es/ad/universityof-luxembourg/2018/doctoral-candidate-phdstudent-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-positi

on-0

Doctoral candidate in applied algebraic geometry.

Aalto University, Espoo, Finland

Closing date: Open until filled.

 ${\tt https://academic positions.es/ad/aalto-univer} \\ {\tt sity/2018/doctoral-candidate-in-applied-alge} \\$

braic-geometry/121056

Postdoctoral position in Inverse Problems for PDE.

University of Genoa, Genoa, Italy

Closing date: 20 February 2019.

http://euro-math-soc.eu/job/postdoctoral-po

$\verb|sition-inverse-problems-pde|$

EuroPLEx PhD Scholarship In Lattice Gauge Theory.

Swansea University, Swansea, UK Closing date: 22 February 2019.

https://www.jobs.ac.uk/job/BPV031/fully-fund

ed-europlex-phd-scholarship-in-lattice-gaug
e-theory

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/

Post-doctoral Fellow.

The University of Hong Kong, Hong Kong, China Closing date: 28 February 2019.

http://euro-math-soc.eu/system/files/job-an nouncements/Ref493741.pdf

Postdoc position in Algebraic Geometry.

Roma Tre, Rome, Italy

Closing date: 28 February 2019.

http://euro-math-soc.eu/job/postdoc-positi

on-algebraic-geometry-roma-tre

European Research Council (ERC) Advanced Grant DYCON - Dynamic Control.

Deusto Tech, University of Deusto, Bilbao, Spain Closing date: 14 March 2019.

https://deusto.talentclue.com/en/node/40187732/4590/modal

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/

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

ERC Consolidator Grant.

European Commission

Closing date: 7 February 2019. https://tinyurl.com/ya8e4x18

Associate Senior Lecturer in Computational Mathematics.

Umea University, Umea, Sweden Closing date: 13 February 2019.

https://umu.mynetworkglobal.com/en/what:job/

jobID:243345/

Assistant Professor in Mathematics.

Higher School of Economics, Moscow, Russia

Closing date: 15 February 2019. https://iri.hse.ru/Math_2019

Professor in Mathematics.

University of Ljubljana, Ljubljana, Slovenia Closing date: 9 March 2019.

https://www.uni-lj.si/news/job_vacancies/2019010808161024/

Assistant Professor in Coding Theory.

Eindhoven University of Technology, Netherlands Closing date: 14 March 2019.

https://jobs.tue.nl/en/vacancy/tt-assistant-professor-coding-theory-449061.html

ERC-POC Proof of Concept Grant.

European Commission

Closing date: 25 April and 19 September 2019.

https://tinyurl.com/ybjgm36k

Assistant professor in Mathematics.

Deusto University, Bilbao, Spain Closing date: Open until filled.

https://deusto.talentclue.com/es/node/38171378/

4590/modal

Mathematics adjunct instructors.

Portland State University, Oregon, United States

Closing date: Open until filled.

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

Tenure track position in geometry.

McMaster University, Ontario, Canada

Closing date: Open until filled.

https://www.mathjobs.org/jobs/jobs/12720

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/

Research in pairs in the Mathematisches Forschunginstitut 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 Researh 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 Researh 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 Mathematiques (CIRM).

CIRM, Marseille, France.

2 to 3 researchers for 1 to 2 weeks.

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 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/visitingscholars/

Small team visiting the Centre de Recerca Matemàtica.

CRM, 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

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: March 1st, October 15 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 1st

http://tinyurl.com/msri-htw

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: March 15, October 15 and December 1st

http://tinyurl.com/msri-sgs

Research and Innovation Staff Exchange (RISE).

Marie SkÅĆodowska-Curie Actions, European Commission.

Deadline: 2 April 2019.

http://ec.europa.eu/research/mariecurieactions/actions/get-funding/research-and-innovation-staff-exchange-rise-2019_en

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 Forschunginstitut Oberwolfach.

Oberwolfach, Germany.

Deadline: Open.

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

Mathematical and physical sciences funding.

National Science Foundation, United States of America.

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

Francisco J. Herranz, Ángel Ballesteros, Iván Gutiérrez-Sagredo and Mariano Santander: Cayley-Klein Poisson homogeneous spaces.

1812.11883

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

Leonor Ferrer, Francisco Martín, Rafe Mazzeo and Magdalena Rodríguez: Families of minimal surfaces in $\mathbb{H}^2 \times \mathbb{R}$ foliated by arcs and their Jacobi fields.

1901.04066 [math.DG]

Boris Khesin, Daniel Peralta-Salas and Cheng Yang: A basis of Casimirs in 3D magnetohydro-dynamics.

1901.04404

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

Dan Li and Sonia Martínez: Online optimization and data assimilation with performance guarantees.

1901.07377

[math.OC]

Eddygledson S. Gama, Esko Heinonen, Jorge H. de Lira and Francisco Martín: Jenkins-Serrin problem for horizontal translating graphs in $M \times \mathbb{R}$.

1901.07224

[math.DG]

Network's collaborators

H. W. Braden: Spectral Curves are Transcendental.

1812.11093

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

L. Delisle-Doray, V. Hussin, S. Kuru and J. Negro: Classical ladder functions for Rosen-Morse and curved Kepler-Coulomb systems.

1812.11582

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

Li Guo and Yunnan Li: Braided Rota-Baxter algebras, quantum quasi-shuffle algebras and braided dendriform algebras.

1901.02843

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

Xuefeng Shen and Melvin Leok: Geometric Symmetry Reduction of the Unobservable Subspace for Kalman Filtering.

1901.03474 [math.OC]

Joakim Arnlind and Giovanni Landi: Projections, modules and connections for the noncommutative cylinder.

1901.07276

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

Ernesto Pérez-Chavela and Juan Manuel Sánchez Cerritos: Relative equilibria for the positive curved n-body problem.

1901.08863 [math.DS]

Pavol Severa and Thomas Strobl: Transverse generalized metrics and 2d sigma models.

1901.08904

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

Links of interest

The Geometry, Mechanics and Control Network.

International, spanish based research network.
http://gmcnet.webs.ull.es/

Journal of Geometric Mechanics (JGM).

Volume 10, Issue 4, 2018.

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

International Mathematical Union-Net 92.

November 2018.

https://www.mathunion.org/fileadmin/IMU/Organization/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

European Research Council.

Supporting top researchers from anywhere in the world

https://erc.europa.eu/

International Cooperation "Open to the World".

Research and Innovation, European Commission http://ec.europa.eu/research/participants/do cs/h2020-funding-guide/cross-cutting-issues /international-cooperation_en.htm

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.

 ${\bf Mathematics~and~Physics~related~areas}.$

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

Academic jobs in Mathematics in Europe.

http://academicpositions.eu/

Academic jobs in Mathematics in the UK.

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

Academic jobs in Mathematics worldwide.

https://www.postdocjobs.com/

Academic jobs in Mathematics in Spain.

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

Academic jobs in Mathematics.

http://www.indeed.com/q-Postdoctoral-jobs.htm

SIAM Activity Group on Control and Systems Theory Prize.

https://tinyurl.com/ydcpznv7

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

https://tinyurl.com/ycjpzvz6

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

American Mathematical Society Prizes and Awards.

https://www.ams.org/profession/prizes-awards/prizes

Mathematical Association of America Awards.

https://www.maa.org/programs-and-communities/member-communities/maa-awards/writing-awards

Association for Women in Mathematics Awards.

https://awm-math.org/awards/

Royal Society of London Premier Medals and Awards.

https://royalsociety.org/grants-schemes-awards/awards/premier-awards/

London Mathematical Society Prizes.

https://www.lms.ac.uk/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-math ematical-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-awar ds/awards/nominations/

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