

Geometry, Mechanics and Control Network Infosheet

December 2019

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GMC Network Infosheet December 2019

Network's activities

Special Session "Geometry, Mechanics, Control and its Interactions" at VI Latin American Congress of Mathematicians (CLAM 2020). 20-24 July 2020, Montevideo, Uruguay. https://clam2020.cmat.edu.uy/

Outstanding events

Special Session "Geometric Mechanics, Dynamics and Control" in honor of Anthony Bloch (XIII AIMS Conference on Dynamical Systems). 6-9 June 2020, Atlanta, USA. https://sites.google.com/view/blochfest/home

"Geometry, Mechanics, and Dynamics". Conference in Honor of the 70th Birthday of Tudor Ratiu. 20-24 July 2020, Lausanne, Switzerland. https://cib.epfl.ch/events/1505

Other conferences

Geometry from the Quantum. 13-17 January 2020, Santa Barbara, USA. https://www.kitp.ucsb.edu/activities/qgravity-c20

9th International Conference on Quantum Simulation and Quantum Walks. 20-24 January 2020, Marseille, France.

https://conferences.cirm-math.fr/2161.html

Connections for Women: Quantum Symmetries. 23-24 January 2020, Berkeley, USA. http://www.msri.org/workshops/905

Symmetry and Geometry on the Southern Great Plains.

24-26 January 2020, Oklahoma, USA. https://math.ou.edu/~mjablonski/SGSGP_2020/

Introductory Workshop: Quantum Symmetries. 27-31 January 2020, Berkeley, USA. http://www.msri.org/workshops/905

Symplectic Geometry, Contact Geometry and Interactions. 6-8 February 2020, Antwerpen, Belgium.

https://tinyurl.com/y67nzdke

Group Actions in Aritmetic and Geometry (CIMPA School).

17-28 February 2020, Yogyakarta, Indonesia. http://www.rnta.eu/Yogyakarta2020/

Implicit Function Theorems in Geometry and Dynamics (Winter School).

19-22 February 2020, Ebsdorfergrund, Germany. https://tinyurl.com/vndt7vg

Dynamical aspects of pseudo-Riemannian geometry.

2-6 March 2020, Braga, Portugal. https://cmup.fc.up.pt/Pseudo-Riemannian-Geom etry/

Tensor categories and topological quantum field theories. 16–20 March 2020, Berkeley, USA.

http://www.msri.org/workshops/917

Geometric Variational Problems.

23-27 March 2020, Ulm, Germany. https://tinyurl.com/uxtvgok

New Perspectives on Sys Mirror Symmetry.

30 March-1st April 2020, London, England. https://sites.google.com/view/imperial-syz

Workshop on classical and quantum aspects of symplectic geometry. 6-9 April 2020, Nantes, France. https://tinyurl.com/vje4msw

Regularity theory for elliptic and parabolic systems and problems in continuum mechanics.

6-9 May 2020, Telč, Czech Republic. https://tinyurl.com/yyglw731

Job offers, fellowships and supports

Ph.D. offers

PhD positions in Pure Mathematics.

KU Leuven, Leuven, Belgium Closing date: 8 January 2020. https://www.kuleuven.be/personeel/jobsite/jo

bs/55445636?hl=en&lang=en

PhD position.

Georg-August-Universitat Gottingen, Gottingen, Germany Closing date: 11 January 2020.

Quantum Topology and Geometry.

11 - 15 May 2020, Luminy, France. https://conferences.cirm-math.fr/2160.html

Intensive Period on Poisson Geometry and Mathematical Physics.

18 May-17 July 2020, Fisciano, Italy. http://www.poisson.unisa.it

Interactions of gauge theory with contact and symplectic topology in dimensions 3 and 4.

07-12 June 2020, Banff, Canada. http://www.birs.ca/events/2020/5-day-workshop s/20w5088

IX School on Geometry and Physics.

22-26 June 2020, Białowieża, Poland. http://wgmp.uwb.edu.pl/index.html

Dynamics, SCV and CR geometry.

15-19 June 2020, Nice, France. https://math.unice.fr/~stolo/conf/CRDyn20.htm l

Digital Geometry and Discrete Variational Calculus.

22-26 June 2020, Luminy, France. https://conferences.cirm-math.fr/2168.html

XXXIX Workshop on Geometric Methods in Physics.

28 June-04 July 2020, Białowieża, Poland. http://wgmp.uwb.edu.pl/index.html

Geometry Festival.

29 June-03 July 2020, Veszprém, Hungary. https://geofest.mik.uni-pannon.hu/index.php

http://www.uni-goettingen.de/en/2794.html?c id=100625

'La Caixa' PhD positions. ICMAT, Madrid, Spain Closing date: 4 February 2020. https://www.icmat.es/resources/employment/INP hINIT_La-Caixa

PhD Candidate in Applied Mathematics. Radboud University, Nijmegen, Netherlands

Closing date: 9 February 2020. https://www.ru.nl/english/working-at/vacatur e/details-vacature/?recid=1080677

PhD Positions in Mathematics. Universities of Coimbra and Porto, Portugal Closing date: 15 February 2020. http://www.mat.uc.pt/phd_prog/default.php

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.

TU Delft, Delft, The Netherlands Closing date: Open until filled. https://tinyurl.com/yyzhqhfr

Postdoctoral fellowships

Postdoctoral Fellowship in Representation Theory.

Laboratoire de Mathematiques Blaise Pascal, Clermont-Ferrand, France Closing date: 15 January 2020. https://tinyurl.com/tq286b4

Postdoc position in optimal control of PDEs.

University of Graz, Graz, Austria Closing date: 15 January 2020. https://mathematik.uni-graz.at/index.php?id= 39381

Postdoctoral Fellows in Mathematics.

National Center for Theoretical Sciences, Taiwan Closing date: 28 February 2020.

http://www.ncts.ntu.edu.tw/news_detail.php?n id=75

Postdoctoral position in Mathematical Physics.

Czech Academy of Sciences, Rez, Czech Republic Closing date: 29 February 2020.

https://euro-math-soc.eu/job/two-year-postdo ctoral-position

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

Doctoral candidate (PhD student) in the Systems Control Group. University of Luxembourg, Luxembourg Closing date: Open until filled. https://tinyurl.com/y673lflx

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. https://tinyurl.com/y298aqpp

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/facultypositions-0

Research scientist in Mathematics.

Massachusetts Institute of Technology, Massachusetts, United States

Closing date: Open until filled.

https://simonscollab.icerm.brown.edu/open-po sitions/

Humboldt research fellowship for postdoctoral researchers. Alexander von Humboldt Foundation

Closing date: Open. https://www.humboldt-foundation.de/web/humbol dt-fellowship-postdoc.html

Lisa Meitner program.

FWF Austrian Science Fund, Vienna, Austria Closing date: Open.

https://www.fwf.ac.at/en/research-funding/ap plication/

Funded postdoctoral fellowship. University of Reading, United Kingdom Closing date: Open.

https://www.reading.ac.uk/maths-and-stats/Jo bsAndFellowships/maths-fellowships.aspx

Lecturer/Senior Lecturer/ Associate Professor in Mathematical Physics. University of Bristol, Bristol, United Kingdom Closing date: 6 January 2020. https://www.researchgate.net/job/936603_Lectu rer_Senior_Lecturer_Associate_Professor_in_M athematical_Physics

Associate Professor in Mathematical Physics.

Mathematics Department of Radboud University, Nijmegen, The Netherlands Closing date: 6 January 2020. https://www.ru.nl/english/working-at/vacatur e/details-vacature/?recid=1072081

Professor in Applied Mathematics.

Karlstad University, Karlstad, Sweden Closing date: 15 January 2020. https://euro-math-soc.eu/job/professor-math ematics-focus-applied-mathematics

Differential geometry expert.

Barcelona, Spain. Mail to: mcastellano@talentocientifico.com. Closing date: Open until filled.

Several Tenure Track positions.

TU Delft, Delft, The Netherlands Closing date: Open until filled.

Offers for visiting researchers

ICTP-INdAM Research in Pairs.

International Centre for Theoretical Physics and the Istituto Nazionale di Alta Matematica. Projects between mathematicians from developing countries and INdAM or ICTP members. Closing date: 12 January 2020. https://tinyurl.com/t2sd9t8

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/visiti ng-research-fellows/

Simons Visiting Professors at Mathematisches Forschunginstitut Oberwolfach. Oberwolfach, Germany. https://www.tudelft.nl/en/3me/departments/de
lft-center-for-systems-and-control/about-dc
sc/vacancies/

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

Distinguished junior or senior scientists from outside Europe up to two weeks. Closing date: Open.

https://www.mfo.de/scientific-program/meetin gs/simons-visiting-professors

Research in pairs at Mathematisches Forschunginstitut Oberwolfach.

Oberwolfach, Germany.

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

Closing date: Six months before planned stay. https://tinyurl.com/t7dfjel

Focused research groups in Banff, Canada. Banff International Researh Station, Canada. Up to 8 researchers for periods of 1 to 2 weeks. Closing date: Minimum 4 months before the event. http://www.birs.ca/programs/general-programdescriptions

Research in Teams in Banff, Canada. Banff International Researh Station, Canada. Teams of 2 to 4 researchers for 1 to 2 weeks. Closing date: Minimum 4 months before 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://tinyurl.com/y5vnhxj6

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://tinyurl.com/un8bd4t

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

Financial support for research projects and conferences

European Researchers' Night 2020.

European Commission, Marie Skłodowska-Curie Actions.

Deadline: January, 9.

https://ec.europa.eu/info/funding-tenders/op portunities/portal/screen/opportunities/topi c-details/msca-night-2020

Innovative Training Networks 2020.

European Commission, Marie Skłodowska-Curie Actions.

Deadline: January, 14.

https://ec.europa.eu/info/funding-tenders/op portunities/portal/screen/opportunities/topi c-details/msca-itn-2020

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 1st, October 15 and December 1st. http://tinyurl.com/msri-htw

Summer Graduate Schools at MSRI. Mathematical Sciences Research Institute, Berkeley, United States.

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

http://tinyurl.com/msri-sgs

Short-term exchanges of research and business staff - Research and Innovation Staff Exchange (RISE) 2020.

European Commission, Marie Skłodowska-Curie Actions.

Deadline: April, 28.

https://ec.europa.eu/research/mariecurieactio ns/actions/get-funding/short-term-exchangesresearch-and-business-staff-research-and-in novation-staff_en

Support for workshop organization. Banff International Research Station.

Deadline: No precise deadline.

http://www.birs.ca/programs/general-programdescriptions

Proposal of a workshop in the Mathematisches Forschunginstitut Oberwolfach. Oberwolfach, Germany.

Deadline: Open.

https://www.mfo.de/scientific-programme/meet ings/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

Preprints and papers

Network's members

Paulo Antunes and Joana M. Nunes da Costa: Split Courant algebroids as L_{∞} -structures.

1912.09791

[math.DG]

Network's collaborators

Xiaoming Duan, Mishel George, Rushabh Patel and Francesco Bullo: Robotic Surveillance Based on the Meeting Time of Random Walks. 1912.02693 [cs.RO, math.OC]

Bozidar Jovanovic, Tijana Sukilovic and Srdjan Vukmirovic: Integrable systems associated to the filtrations of Lie algebras and almost multiplicity free subgroups of compact Lie groups. 1912.03199 [nlin.SI, math.GR, math.SG]

Andreas Fring and Samuel Whittington: N-Extended Lorentzian Kac-Moody algebras. 1912.04225 [hep-th, math-ph, math.MP]

Camille Laurent-Gengoux and Leonid Ryvkin: The holonomy of a singular leaf. 1912.05286 [math.DG]

Tara Holm and Liat Kessler: Equivariant cohomology does not distinguish Hamiltonian S¹manifolds. 1912.05647 [math.SG]

Hosting a workshop at AIMS South Africa.

Contributions for workshops about AIMS's research focus areas. Deadline: No precise deadline.

https://tinyurl.com/y8p3t34j

International Mathematical Union - Conference support program.

For conferences in developing or economically disadvantaged countries. Deadline: Several calls. https://tinyurl.com/yycetfcz

Marco Castrillón López and Miguel Ángel Berbel: Reduction (by stages) in the whole Lagrange-Poincaré category. 1912.10763 [math.DG, math.DS]

Boris Khesin and Serge Tabachnikov: Fun Problems in Geometry and Beyond. 1912.05740 [math.HO, math.DG]

David Gómez-Ullate and Robert Milson: Lectures on exceptional orthogonal polynomials and rational solutions to Painlevé equations. 1912.07597 [math-ph, math.CA, math.MP, nlin.SI]

Richard Cushman and Jedrzej Sniatycki: *Differ*entiable spaces that are subcartesian. 1912.07472 [math.DG]

Yang Lu and Minghui Zhu: On privacy preserving data release of linear dynamic networks. 1912.07641 [math.OC, cs.CR]

Yacine Chitour, Nicola Guglielmi, Mario Sigalotti and Vladimir Protasov: Switching systems with dwell time: computation of the maximal Lyapunov exponent. 1912.10214 [math.DS, cs.NA, math.NA]

Marcelo Epstein: Reflections on the structural and constitutive approaches to the theory of defects. 1912.10560 [math-ph, math.MP]

N. Aizawa, K. Amakawa and S. Doi: \mathbb{Z}_2^n -Graded

Network's news

PhD Thesis.

Geometric and numerical aspects of mechanical systems with magnetic terms. Author: María Emma Eyrea Irazú. Advisors: Leonardo Colombo and Marcela Zuc-

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 11, Issue 4, 2019. https://www.aimsciences.org/journal/1941-4889/2019/11/4

International Mathematical Union-Net 98. November 2019. https://www.mathunion.org/fileadmin/IMU/Organ ization/imu-net/pdfs/2019/IMU-Net-98.pdf

ICMAT Newsletter.

18th number. First semester 2019. https://www.icmat.es/outreach/newsletter/nu m18

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 https://erc.europa.eu/

International Cooperation "Open to the World". Research and Innovation, European Commission

https://tinyurl.com/y46tkeeq

International Center of Pure and Applied Mathematics (CIMPA).

extensions of supersymmetric quantum mechanics via Clifford algebras. 1912.11195 [math-ph, hep-th, math.MP]

calli.

Date: 18 December 2019.

https://drive.google.com/file/d/1nZUKAeo3Ey2b aiV_TMt6nDAdsvM00p2W/view?usp=sharing

https://www.cimpa.info/

Reports@SCM journal. http://revistes.iec.cat/index.php/reports/

Mathematics in Europe. http://www.mathematics-in-europe.eu/

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. 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-tecn ologia/convocatorias

Academic jobs in Mathematics. http://www.indeed.com/q-Postdoctoral-jobs.htm l

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-awar ds-prizes-and-special-lecture

Other Prizes of International Mathematical Union.

https://www.mathunion.org/imu-awards/otherprizes

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/

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

IEEE Control Systems Society Awards. http://ieeecss.org/awards/awards-program

Royal Society of London Premier Medals and Awards.

https://royalsociety.org/grants-schemes-awar ds/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&t woid=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?rub
rique107&lang=en

Society for Industrial and Applied Mathematics Prizes. https://www.siam.org/prizes/

Noether Lectures Award. https://sites.google.com/site/awmmath/progra ms/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