

GMC Network Infosheet

July 2019



Geometry, Mechanics and Control Network Infosheet

July 2019

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Network's activities

14th International Young Researchers Workshop on Geometry, Mechanics and Control.

16–18 December 2019, Göttingen, Germany.

<https://www.uni-goettingen.de/en/607463.html>

Outstanding events

Summer School and Workshop Wisla 19.

19–29 August 2019, Wisla, Poland.

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

XXVIII International Fall Workshop on Geometry and Physics.

2–6 September 2019, Madrid, Spain.

<https://www.icmat.es/congresos/2019/IFWGP/>

Women in Geometry and Topology.

25–27 September 2019, Barcelona, Spain.

<http://tinyurl.com/yywkg048>

Other conferences

Workshop on New Geometry of Quantum Dynamics.

12–16 August 2019, Montreal, Canada.

<http://www.fields.utoronto.ca/activities/19-20/quantum-dynamics>

Mathematical Results in Quantum Physics.

12–16 August 2019, Aarhus, Denmark.

<http://conferences.au.dk/qmath14/>

Topology, Geometry, and Dynamics: Rokhlin–100.

19–23 August 2019, Saint-Peterburg, Russia.

<http://www.pdmi.ras.ru/EIMI/2019/tgd/index.html>

24th International Summer School on Global Analysis and its Applications.

19–23 August 2019, Levoca, Slovakia.

<http://www.lepageri.eu/summer-school>

Holomorphic Differentials in Mathematics and Physics.

19–23 August 2019, Berkeley, United States.

<http://www.msri.org/workshops/895>

Groups and Geometries.

25–30 August 2019, Banff, Canada.

<https://www.birs.ca/events/2019/5-day-workshops/19w5046>

Supersymmetries and Quantum Symmetries.

26–31 August 2019, Yerevan, Armenia.

<http://theor.jinr.ru/sqs19/>

7th International Workshop on New Challenges in Quantum Mechanics: Integrability and Supersymmetry.

1–7 September 2019, Benasque, Spain.

<http://benasque.org/2019qmis/>

Differential Geometry and its Applications.

2–6 September 2019, Hradec Králové, Czech Republic.

<http://dga2019.uhk.cz/>

Conference on Geometry and Physics.

2–6 September 2019, Bucharest, Romania.

<http://events.theory.nipne.ro/gap/index.php/conference>

Geometry and Strings 2019.

3–6 September 2019, Oxford, United Kingdom.

<https://sites.google.com/view/geometryandstrings2019/home>

11th IFAC Symposium on Nonlinear Control Systems.

4–6 September 2019, Vienna, Austria.

<http://www.mechatronicsnolcos2019.org/>

Summer School on Control Theory in Mechanics.

8–14 September 2019, Quiberon, France.

<http://tcm.ida.upmc.fr/>

Many-body Quantum Systems.

8–14 September 2019, Oberwolfach, Germany.

<https://www.mfo.de/www/schedule/2019/all>

Joint Seminar on Geometric Analysis.

13–14 September 2019, Luminy, France.

<https://conferences.cirm-math.fr/2345.html>

Large Scale Stochastic Dynamics.

15–21 September 2019, Oberwolfach, Germany.

https://www.mfo.de/occasion/1938/www_view

Quantum Flag Manifolds in Prague.

16–20 September 2019, Prague, Czech Republic.

<https://tinyurl.com/y273rfel>

International conference on Geometric Analysis.

22–28 September 2019, Novosibirsk, Russia.

<https://tinyurl.com/yyscze4c>

Challenges in Theoretical High-Energy Physics.

23–27 September 2019, Stockholm, Sweden.

<https://tinyurl.com/y5dw8e5c>

Problems of Theoretical and Mathematical Physics.

24–26 September 2019, Kyiv, Ukraine.

<https://bogolyubov2019.bitp.kiev.ua/>

Dirac operators in differential geometry and global analysis.

6–12 October 2019, Bedlewo, Poland.

<http://http://wmii.uwm.edu.pl/dirac/>

4th IEEE Colombian Conference on Automatic Control.

15–18 October 2019, Medellin, Colombia.

<http://www.ieecccac2019.com/>

Dynamics, Geometry and Combinatorics.

21–25 October 2019, Lausanne, Switzerland.

<https://bernoulli.epfl.ch/events/1489>

Modern Problems of Mathematics and Mechanics.

23–25 October 2019, Baku, Azerbaijan.

<https://imm60.imm.az/>

Algebraic and Geometrical Methods in String Theory.

28 October–8 November 2019, San Martín, Argentina.

<http://icas.unsam.edu.ar/hub/cimpa2019/>

Dirac operators on domains with magnetic fields.

28 October–8 November 2019, Luminy, France.

<https://conferences.cirm-math.fr/2240.html>

Workshop on Contact and Poisson Geometry.

31 October–2 November 2019, Timisoara, Romania.

<https://sites.google.com/view/wcpg>

Workshop on Differential Geometry and Nonassociative Algebras.

12–15 November 2019, Luminy, France.

<https://conferences.cirm-math.fr/2076.html>

Workshop on Higher Structures in Geometry and Physics.

18–22 November 2019, Montreal, Canada.

<https://tinyurl.com/y6rvpcpb>

58th Conference on Decision and Control.

11–13 December 2019, Nice, France.

<http://cdc2019.ieeecss.org/index.php>

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>

Job offers, fellowships and supports

Ph.D. offers

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>

Ph.D. positions in Applied Mathematics.

Department of Mathematics, FAU Erlangen, Erlangen, Germany
Closing date: 30 September 2019.
<https://tinyurl.com/yy4rp67j>

PhD Position.

University of Fribourg, Fribourg, Switzerland
Closing date: 30 September 2019.
<https://euro-math-soc.eu/system/files/job-announcements/PhD-UniFr-WengerGroup.pdf>

12 PhD Positions in Climate Forecasting.

Centre de Recerca Matemàtica
Closing date: 8 October 2019.
<https://www.mathjobs.org/jobs/jobs/13814>

Doctoral Researcher in optimal transport.

Department of Mathematics, Technische Universität München
Closing date: 31 December 2019.
https://euro-math-soc.eu/system/files/job-announcements/Schmitzer_Doc.pdf

Postdoctoral fellowships

Post-doctoral researcher in Geometry.

Instituto de Matemática e Estatística, Universidade de São Paulo, São Paulo, Brazil
Closing date: 9 August 2019.
https://euro-math-soc.eu/system/files/job-announcements/ChamadaENG_0.pdf

Postdoc in Probability / Statistical mechanics.

University of Fribourg, Fribourg, Switzerland
Closing date: 1 September 2019.
<http://euro-math-soc.eu/job/postdoc-probability-statistical-mechanics>

PhD positions in mathematics.

University of Luxembourg, Luxembourg
Closing date: 1 March 2020.
<http://recruitment.uni.lu/en/details.html?nPostingId=25556&nPostingTargetId=41799>

PhD positions.

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

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

University of Luxembourg, Luxembourg
Closing date: Open until filled.
<https://tinyurl.com/y6731flx>

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>

Doctoral candidate in applied algebraic geometry.

Aalto University, Espoo, Finland
Closing date: Open until filled.
<https://tinyurl.com/y298aqpp>

Marie Skłodowska-Curie Individual Fellowships.

European Commission
Closing date: 11 September 2019.
<https://tinyurl.com/y362e3tg>

Postdoc positions in Applied Mathematics.

Department of Mathematics, FAU Erlangen
Closing date: 30 September 2019.
<https://tinyurl.com/yy4rp67j>

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.

Offers for researchers

Professorship in Pure Mathematics.
Georg-August University Göttingen, Göttingen, Germany
Closing date: 5 August 2019.
<https://www.uni-goettingen.de/en/608689.html>

Assistant Professor in Mathematics.
TU Delft, Delft, Netherlands
Closing date: 15 August 2019.
<https://euro-math-soc.eu/job/assistant-professor-tenure-track-mathematics>

Tenure Track in Mathematical Sciences.
Bentley University, Massachusetts, United States
Closing date: 15 August 2019.
<https://www.mathjobs.org/jobs/jobs/12307>

ERC-POC Proof of Concept Grant.
European Commission
Closing date: 19 September 2019.
<https://tinyurl.com/ybjgm36k>

Several Tenure Track positions.
TU Delft, Delft, The Netherlands
Closing date: Open until filled.
<https://www.tudelft.nl/en/3me/departments/delft-center-for-systems-and-control/about-dcsc/vacancies/>

<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>

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 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.

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/visiting-scholars/>

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

Call for projects EMALCAS (School of Mathematics) 2020.

Mathematical Union of Latin America and the Caribbean (UMALCA), Chile.

Deadline: 15 August 2019.

<http://www.umalca.org/2019/06/llamado-emalcas-2020/>

Call for projects CIMPA Schools 2021.

Centre International de Mathématiques Pures et

Appliquées, France.

Deadline: 9 September 2019.

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

Marie Skłodowska–Curie Co–Funding of regional, national and international programmes.

European Commission.

Deadline: 26 September 2019.

<https://tinyurl.com/y9nh7ybt>

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

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

Hot Topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

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

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

<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, 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 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.

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

Preprints and papers

Network's members

Florio M. Ciaglia, Alberto Ibort, Jürgen Jost and Giuseppe Marmo: *Manifolds of classical probability distributions and quantum density operators in infinite dimensions.*

1907.00732

[math-ph, math.MP]

Francisco Martín Cabrera: *Harmonic almost contact metric manifolds revisited.*

1907.02325

[math.DG]

Jordi Gaset, Xavier Gràcia, Miguel C. Muñoz-Lecanda, Xavier Rivas and Narciso Román-Roy: *New contributions to the Hamiltonian and Lagrangian contact formalisms for dissipative mechanical systems and their symmetries.*

1907.02947 (version 2)

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

Florio M. Ciaglia, Alberto Ibort and Giuseppe

Marmo: *Schwinger's Picture of Quantum Mechanics II: Algebras and Observables.*

1907.03883

[math-ph, math.MP]

Modesto Salgado and Silvia Vilariño: *Tulczyjew's derivations and intrinsic field equations in classical field theories.*

1907.05667

[math-ph, math.MP]

Fabio Di Cosmo, Alberto Ibort and Giuseppe Marmo: *Groupoids and Coherent states.*

1907.09010

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

Stephane Geudens and Marco Zambon: *Coisotropic submanifolds in b-symplectic geometry.*

1907.09251

[math.SG]

Network's collaborators

Hiroaki Yoshimura and François Gay-Balmaz: *Dirac structures and port-Lagrangian systems in thermodynamics.*

1907.00373

[math-ph, math.MP]

E. Celeghini, M. Gadella and M. A. del Olmo: *Groups, Special Functions and Rigged Hilbert Spaces.*

1907.01281

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

Katarzyna Grabowska and Janusz Grabowski: *Solvable Lie algebras of vector fields and a Lie's conjecture.*

1907.02925

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

Petre Birtea, Ioan Casu and Dan Comanescu: *Characterization of the critical points for the free energy of a Cosserat problem.*

1907.04726

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

Maximilian Engel, Christian Kuehn, Matteo Pettera and Yuri Suris: *Discretized Fast-Slow Systems with Canard Points in Two Dimensions.*

1907.06574

[math.DS]

François Gay-Balmaz and Cesare Tronci: *Madelung transform and probability densities in hybrid classical-quantum dynamics.*

1907.06624

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

Felipe Rodrigues de Almeida, Aleksandr Pinzul and Allen Stern: *Non-commutative AdS_2/CFT_1 duality: the case of massive and interacting scalar fields.*

1907.07298

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

Karl-Hermann Neeb and Gestur Olafsson: *Symmetric spaces with dissecting involutions.*

1907.07740

[math.DG]

Tomoki Ohsawa: *Collective Heavy Top Dynamics.*

1907.07819

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

Francesco Bonechi, Alberto S. Cattaneo, Jian Qiu and Maxim Zabzine: *Equivariant Batalin-Vilkovisky formalism.*

1907.07995

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

R. Camassa, G. Falqui, G. Ortenzi and M. Pedroni: *On the geometry of extended self-similar solutions of the Airy Shallow Water Equations.*

1907.10920

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

Niclas Kruff, Jaume Llibre, Chara Pantazi and Sebastian Walcher: *Invariant algebraic surfaces of polynomial vector fields in dimension three.*

1907.12536

[math.DS]

Network's news

PhD Thesis.

Discrete Mechanics for Forced and Constrained Systems.

Author: Rodrigo T. Sato Martín de Almagro.

Advisor: David Martín de Diego.

Date: July 2019.

https://www.icmat.es/Thesis/2019/Tesis_Rodrigo_Sato.pdf

Links of interest

The Geometry, Mechanics and Control Network.

International, spanish based research network.

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

Volume 11, Issue 2, 2019.

<https://aimsciences.org/journal/1941-4889/2019/11/2>

Journal of Geometric Mechanics (JGM).

International Mathematical Union-Net 95.
May 2019.

<https://www.mathunion.org/fileadmin/IMU/Organisation/imu-net/pdfs/2019/IMU-Net-95.pdf>

ICMAT Newsletter.

18th number. First semester 2019.

<https://www.icmat.es/outreach/newsletter/num18>

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).

<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-tecnologia/convocatorias>

Academic jobs in Mathematics.

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

SIAM Activity Group on Control and Systems Theory Prize.

<https://tinyurl.com/ydcpzmv7>

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>

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-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