Geometry, Mechanics and Control Network Infosheet

August 2019

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GMC Network Infosheet

August 2019

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

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/yywkgo48

Other conferences

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/

IMAC Math-Quantum Day.
27 September 2019, Castellón, Spain.
http://www.imac.uji.es/QuantumMath_Day.html

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.ieeeccac2019.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

IX Conference on Quantum Foundations.
27–29 November 2019, Córdoba, Argentina.
https://sites.google.com/view/ixjfc

Symplectic Geometry with Algebraic Techniques with applications to Mathematical Physics.
10–13 December 2019, Madrid, Spain.
https://www.icmat.es/RT/2019/CTIGMINS/gesta.php

Supergeometry, supersymmetry and quantization.
16–19 December 2019, Luxembourg, Luxembourg.
http://math.uni.lu/SuperWork/SuperConference.html

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

9th International Conference on Quantum Simulation and Quantum Walks.
20–24 Januay 2020, Marseille, France.
https://conferences.cirm-math.fr/2161.html

Job offers, fellowships and supports

Ph.D. offers

Ph.D. scholarships in Argentina.
Buenos Aires, Argentina
Closing date: 13 September 2019.
https://www.gba.gob.ar/cic/becas_doctorales

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

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/yyzhqhfr

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-position-0

Doctoral candidate in applied algebraic geometry.
Aalto University, Espoo, Finland
Closing date: Open until filled.
https://tinyurl.com/y298aqpp

Postdoctoral fellowships

Marie Sklodowska-Curie Individual Fellowships.
European Commission
Closing date: 11 September 2019.
https://tinyurl.com/y362e3tg

Postdoctoral fellowships in Applied Mathematics.
Basque Center for Applied Mathematics, Bilbao, Spain
Closing date: 13 September 2019.
http://www.bcamath.org/en/research/job

Postdoc positions in Chile.
Chile
Closing date: 24 September 2019.
https://www.conicyt.cl/fondecyt/2018/11/15/concurso-postdoctorado-2020/

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.
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

Faculty Position in Algebra.
Department of Mathematics, University of Trento, Trento, Italy
Closing date: 12 September 2019.
https://web.unitn.it/files/download/59381/bando_inglese_dm_mat-02.pdf

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

Tenure Track position in Mathematical Quantum Physics.
Korteweg-de Vries Institute for Mathematics, Amsterdam, Netherlands
Closing date: 15 October 2019.
https://tinyurl.com/y5rmwk4n

Faculty Position in Mathematics.
EPFL, Lausanne, Switzerland
Closing date: 1 November 2019.
https://facultyrecruiting.epfl.ch/auth/Apply/0/Position/18186242/Step/1

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/

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

Simon's fellows in Mathematics and Physical Sciences.
Simon's Foundation, New York, USA.
Grants to institutes and researchers.
Closing date: 25 September to 3 October 2019 depending the grant.
https://www.simonsfoundation.org/funding-opportunities

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

Financial support for research projects and conferences

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 Sklodowska–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 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 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/

Books

Network's member's book

Integrability, Supersymmetry and Coherent States. A Volume in Honour of Professor Veronique Hussin.
Authors: S . Kuru, J. Negro and L.M. Nieto (Eds.).
Publisher: CRM Series in Mathematical Physics, Springer.
Date: 2019.
https://link.springer.com/book/10.1007/978-3-030-20087-9

Preprints and papers

Network's members

Florio M. Ciaglia, Alberto Ibort and Giuseppe Marmo: *On the notion of composite system.*
1908.02976
[quant-ph, math-ph, math.MP]

Manuel Lainz, Cristina Sardón and Alan Weinstein: *Plasma in monopole background is not twisted Poisson.*
1908.03986
[math-ph, math.MP, math.SG, physics.plasm-ph]

Network's collaborators

Rong Tang, Chengming Bai, Li Guo and Yunhe Sheng: *Homotopy Rota-Baxter operators, homotopy $\mathcal{O}$-operators and homotopy post-Lie algebras.*
1907.13504
[math.QA, math-ph, math.MP, math.RT]

Rui Loja Fernandes and Ivan Struchiner: *The Global Solutions to Cartan's Realization Problem.*
1907.13614
[math.DG]

Supriyo Dutta and Partha Guha: *Elements of Generalized Tsallis Relative Entropy in Classical Information Theory.*
1908.01696
[math-ph, cs.IT, math.IT, math.MP]

Oscar Macia and Andrew Swann: *The c-map on groups.*

1908.01736
[math.DG]

Jeffrey R. Peters, Amit Surana, Grant S. Taylor, Terry S. Turpin and Francesco Bullo: *UAV Surveillance Under Visibility and Dwell-Time Constraints: A Sampling-Based Approach.*
1908.05347
[eess.SY, cs.MA, cs.RO, cs.SY, math.OC]

Florio M. Ciaglia, Fabio Di Cosmo, Armando Figueroa, Vladimir I. Man'ko, Giuseppe Marmo, Luca Schiavone, Franco Ventriglia and Patrizia Vitale: *Nonlinear Dynamics from Linear Quantum Evolutions.*
1908.03699
[quant-ph, math-ph, math.MP]

Stephen C. Anco, M. L. Gandarias and Elena Recio: *Line solitons and conservation laws of a modified KP equation with p-power nonlinearities.*
1908.03962
[math-ph, math.MP, nlin.SI]

A. Balmaseda, F. Di Cosmo and J. M. Pérez-Pardo: *On $\mathbb{Z}$-invariant self-adjoint extensions of the Laplacian on quantum circuits.*
1908.04214
[math-ph, math.MP]

Roger Casals, Dishant M. Pancholi and Francisco Presas: *The Legendrian Whitney trick.*
1908.04828
[math.SG]

Florio M. Ciaglia, Giuseppe Marmo and Luca Schiavone: *From Classical Trajectories to Quantum Commutation Relations.*
1908.06790
[math-ph, math.MP, quant-ph]

Marcelo Epstein: *Hilbert bodies as quantum-classical continua.*
1908.09069
[quant-ph, math-ph, math.MP, 53Z05]

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

International Mathematical Union-Net 96.
July 2019.
https://www.mathunion.org/fileadmin/IMU/Organization/imu-net/pdfs/2019/IMU-Net-96.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/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-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 gmcactivities@gmail.com