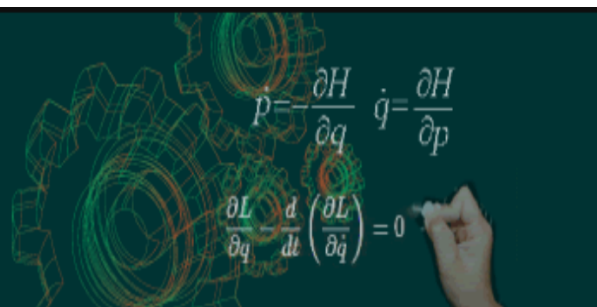




GMC Network



Geometry, Mechanics and Control Network Infosheet

May 2020

Editors: Viviana Díaz, Iván
Gutiérrez, Rodrigo Sato

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Network's activities

XIV International Summer School on Geometry, Mechanics and Control (Postponed).
6–10 July 2020, Burgos, Spain.

Special Session “Geometry, Mechanics, Control and its Interactions” at VI Latin American Congress of Mathematicians (Postponed).
20–24 July 2020, Montevideo, Uruguay.

Outstanding event

Online Seminar on Geometry, Dynamics and Mechanics.
A series of online seminars on these topics.

Other conferences

Western Hemisphere Colloquium on Geometry and Physics.
Online colloquium about current research on topics in the interface of the two fields.

One World IAMP Mathematical Physics Seminar.
Online Seminar of International Association of Mathematical Physics.

Virtual Seminar on Geometry with Symmetries.
Virtual research seminar on the topic of “Lie group actions in Riemannian geometry”.

Geometry and Topology Online.
Warwick Mathematics Institute.

Regensburg Low-Dimensional Geometry and Topology Seminar.
Virtual seminar about interactions between arithmetic geometry and global analysis.

Virtual Geometric Group Theory Conference.
1–5 June 2020, Luminy, France.

Lie theory and integrable systems in symplectic and Poisson geometry (Online conference).

5 – 7 June, 2020, Toronto, Canada.

Interactions of Gauge Theory with Contact and Symplectic Topology in Dimensions 3 and 4 (Online).

7–12 June 2020, Banff, Canada.

22th International Conference on Geometry, Integrability and Quantization (Web format).

8–13 June 2020, Varna, Bulgaria.

6th International Conference on Physics (Webinar).

15–16 June 2020, Barcelona, Spain.

Dynamics, SCV and CR Geometry.

15–19 June 2020, Nice, France.

Geometric Representation Theory (broadcasted over Zoom).

22–26 June 2020, Waterloo, Canada and Bonn, Germany.

Geometry-Topology Summer School (Online).

6–18 July 2020, Istanbul, Turkey.

The 1st Virtual IFAC World Congress on Automatic Control.

12–17 July 2020, Berlin, Germany.

Conformal Geometry and Low Dimensional Manifolds A conference in Honour of Antonio F. Costa.

13–17 July 2020, Avila, Spain.

Conformal field theories in higher dimensions 2020.

13–17 July 2020, Moscow, Russia.

The 33rd International Colloquium on Group Theoretical Methods in Physics.

13–17 July 2020, Cotonou, Benin.

International Meeting on Fluid Dynamics and Fluid Mechanics (Webinar).

22–23 July 2020, Vancouver, Canada.

Calculus of Variations.

2–8 August 2020, Oberwolfach, Germany.

Workshop on Classical and Quantum Integrable Systems.

2–8 August 2020, Sochi, Russia.

Tematic Program: Higher Structures and Field Theory.

3 August-25 September 2020, Wien, Austria.

25th International Summer School on Global Analysis and Applications (interesting courses).

16–22 August 2020, Shenyang, China.

7th International Conference on Applied Physics and Space Science (Webinar).

17–18 August 2020, Paris, France.

The 7th International Conference on Control and Optimization with Industrial Applications.

26–28 August 2020, Baku, Azerbaijan.

The 1st International Conference on Contemporary Problems of Physics and Mathematics with Applications.

4–6 September 2020, Baku, Azerbaijan.

Summer School on Méthodes Probabilistes et Stochastiques en Mécanique.

6 – 12 September 2020, Quiberon, France.

International conference on Geometry in the Large.

14–19 September 2020, Saint Petersburg, Russia.

Women in Mathematical Physics.

20–25 September 2020, Alberta, Canada.

Geometric Structures in Integrable Systems 2020.

20–26 September 2020, Gallipoli, Italy.

2nd World Wide Congregation on Physics.

21–22 September 2020, Rome, Italy.

The unity of mathematics: A conference in honour of Sir Michael Atiyah.

22–24 September 2020, Cambridge, United Kingdom.

Locality and Functoriality in Symplectic Geometry.

18–23 October 2020, Oaxaca, Mexico.

Nonlocal Problems in Mathematical Physics, Analysis and Geometry.

8–13 November 2020, Banff, Canada.

Foliation Theory and Complex Geometry.

23–27 November 2020, Luminy, France.

Job offers, fellowships and supports

Ph.D. offers

PhD students in mathematics.

Lund University, Lund, Sweden

Closing date: 3 June 2020.

Several PhD positions in mathematics.

University of Vienna, Vienna, Austria

Closing date: 15 June 2020.

PhD Position in Geometry.

Friedrich Schiller University Jena, Jena, Germany

Closing date: 30 June 2020.

PhD in Control Theory.

Ecole des Mines de Saint-Etienne, Saint-Etienne, France

Closing date: 30 June 2020.

PhD positions.

Postdoctoral fellowships

Postdoctoral Position in Higher Geometric Structures.

University of Sao Paulo, Sao Paulo, Brazil

Closing date: 15 June 2020.

Research Fellow in Optimisation, Optimal Control or Operations Research.

Curtin University, Perth, Australia

Closing date: 15 June 2020.

Postdoctoral associate.

New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

Closing date: 30 June 2020.

Postdoctoral Associate in Mathematics.

New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

Closing date: 1 September 2020.

Postdoctoral positions in geometry.

Heidelberg University, Germany

Closing date: Open until filled.

Postdoctoral fellowships in algebraic geometry and mathematical sciences.

Offers for researchers

Tenure-track position in Geometry.

Roma Tre University, Rome, Italy

Closing date: 15 June 2020.

TU Delft, Delft, The Netherlands

Closing date: Open until filled.

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

University of Luxembourg, Luxembourg

Closing date: Open until filled.

Open PhD Positions in Geometry.

Max Planck Institute For Informatics, Saarbrücken, Germany

Closing date: Open until filled.

Doctoral candidate in applied algebraic geometry.

Aalto University, Espoo, Finland

Closing date: Open until filled.

Harvard University, Massachusetts, United States

Closing date: Open until filled.

Postdoctoral positions in Mathematics.

Einstein Institute of Mathematics, Jerusalem, Israel

Closing date: Open until filled.

Research scientist in Mathematics.

Massachusetts Institute of Technology, Massachusetts, United States

Closing date: Open until filled.

Humboldt research fellowship for postdoctoral researchers.

Alexander von Humboldt Foundation

Closing date: Open.

Lisa Meitner program.

FWF Austrian Science Fund, Vienna, Austria

Closing date: Open.

Funded postdoctoral fellowship.

University of Reading, United Kingdom

Closing date: Open.

Tenure-track assistant professor in pure mathematics.

KU Leuven, Kortrijk

Closing date: 30 September 2020.

6 Academic Positions.

Ghent University, Gent, Belgium

Closing date: 1 October 2020.

Research Professor in Mathematics.

Beijing Institute of Mathematical Sciences and Applications, Beijing, China

Closing date: Open until filled.

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.

Assistant professor in Mathematics.

Deusto University, Bilbao, Spain

Closing date: Open until filled.

Mathematics adjunct instructors.

Portland State University, Oregon, United States

Closing date: Open until filled.

Tenure track position in geometry.

McMaster University, Ontario, Canada

Closing date: Open until filled.

Tenure track positions in Mathematics.

University of Texas at Dallas, United States

Closing date: Open until filled.

Assistant professor in Mathematics.

Embry-Riddle Aeronautical University at Prescott, Arizona, United States

Closing date: Open until filled.

Offers for visiting researchers

SAMSI visiting research fellows.

Statistical and Applied Mathematical Sciences Institute, USA.

Applications from junior and senior researchers.

Closing date: Open.

Simons Visiting Professors at Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Junior or senior scientists from outside Europe.

Closing date: Open.

Research in pairs at Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

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

Closing date: Six months before planned stay.

Focused research groups in Banff, Canada.

Banff International Research Station, Canada.

Up to 8 researchers for periods of 1 to 2 weeks.

Closing date: Minimum 4 months before the event.

Research in Teams in Banff, Canada.

Banff International Research Station, Canada.

Teams of 2 to 4 researchers for 1 to 2 weeks.

Closing date: Minimum 4 months before the event.

Centre International de Rencontres Mathématiques (CIRM).

CIRM, Marseille, France.

2 to 3 researchers for 1 to 2 weeks.

Closing date: Open all year.

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.

Visiting scholar opportunity in Cambridge.

University of Cambridge, United Kingdom.

Scholars and fellows for development of research, teaching and collaboration.

Closing date: Open.

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.

Visiting research fellow in Kent State University.

Mathematics Department-KSU, Ohio, USA.

Visiting for scholar researchers.

Closing date: Open.

Financial support for research projects and conferences

IAMP Supported Conferences.

International Association of Mathematical Physics.

Deadline: 15 July 2020.

Individual Fellowships 2020.

European Commission.

Deadline: 9 September 2020.

Call for projects of CIMPA Schools 2022.

Research schools in emerging countries.

Deadline: 18 September 2020.

Co-funding of regional, national and international programmes 2020.

European Commission.

Deadline: 29 September 2020.

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

Hot Topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

CIMPA Courses program.

Geographic areas of activities of CIMPA (Africa, Central or South America, Asia).

Deadline: Open all year.

Support for workshop organization.

Banff International Research Station.

Deadline: No precise deadline.

Proposal of a workshop in the Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Deadline: Open.

Mathematical and physical sciences funding.

National Science Foundation, United States of America.

Deadline: No precise deadline.

Hosting a workshop at AIMS South Africa.

Contributions for workshops about AIMS's research focus areas.

Deadline: No precise deadline.

International Mathematical Union - Conference support program.

For conferences in developing or economically disadvantaged countries.

Deadline: Several calls.

Interesting news and publications

Preprints

Network's members

Florio M. Ciaglia, Fabio Di Cosmo, Alberto Ibort, Giuseppe Marmo, Luca Schiavone and Alessandro Zampini: *Lagrangian description of Heisenberg and Landau-von Neumann equations of motion.*

2005.01876

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

Florio M. Ciaglia, Fabio Di Cosmo, Alberto Ibort, Giuseppe Marmo and Luca Schiavone: *Covariant Variational Evolution and Jacobi Brackets: Particles.*

2005.04872

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

Masih Haseli and Jorge Cortés: *Parallel Learning of*

Koopman Eigenfunctions and Invariant Subspaces For Accurate Long-Term Prediction.

2005.06138

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

Eva Miranda and Cédric Oms: *The singular Weinstein conjecture.*

2005.09568 (version 2)

[math.SG, math.DG, math.DS]

Ángel Ballesteros, Alfonso Blasco and Iván Gutiérrez-Sagredo: *Hamiltonian structure of compartmental epidemiological models.*

2006.00564

[math.DS, q-bio.PE]

C. Bai, R. Bai, L. Guo and Y. Wu: *Transposed Poisson algebras, Novikov-Poisson algebras and 3-Lie algebras.*

2005.01110

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

Joakim Arnlind, Kwalombota Ilwale and Giovanni Landi: *On q -deformed Levi-Civita connections.*

2005.02603

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

Nicolas Augier, Ugo Boscain and Mario Sigalotti: *Effective adiabatic control of a decoupled Hamiltonian obtained by rotating wave approximation.*

2005.02737

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

M. Gadella, A. Hernández-Ortega, Ş. Kuru and J. Negro: *Redundant poles of the S -matrix for the one dimensional Morse potential.*

2005.02742

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

Abimael Bengochea, Carlos García-Azpeitia, Ernesto Pérez-Chavela and Pablo Roldan: *Continuation of relative equilibria in the n -body problem to spaces of constant curvature.*

2005.03114

[math.DS]

Manuel Asorey and Alessandro Santagata: *The critical transition of Coulomb impurities in gapped graphene.*

2005.04175

[cond-mat.mes-hall, hep-th, math-ph, math.MP, quant-ph]

Andrew James Bruce and Janusz Grabowski: *Odd Connections on Supermanifolds.*

2005.07449 (version 2)

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

Silvestro Fassari, Luis M. Nieto and Fabio Rinaldi: *The two lowest eigenvalues of the harmonic oscillator in the presence of a Gaussian perturbation.*

2005.09245

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

D. M. Tibaduiza, A. H. Aragão, C. Farina and C. A. D. Zarro: *New BCH-like relations of the $\mathfrak{su}(1,1)$, $\mathfrak{su}(2)$ and $\mathfrak{so}(2,1)$ Lie algebras.*

2005.09500

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

Saber Jafarpour, Pedro Cisneros-Velarde and Francesco Bullo: *Weak and Semi-Contraction Theory with Application to Network Systems.*

2005.09774 (version 3)

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

Luis M. Nieto, Manuel Gadella, Juan M. Mateos-Guilarte, Jose M. Muñoz-Castañeda and Cesar Romaniega: *Some recent results on contact or point supported potentials.*

2005.09931

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

Sergio Albeverio, Silvestro Fassari, Manuel Gadella, Luis M. Nieto and Fabio Rinaldi: *The Birman-Schwinger Operator for a Parabolic Quantum Well in a Zero-Thickness Layer in the Presence of a Two-Dimensional Attractive Gaussian Impurity.*

2005.10336

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

T. Mohamadian, J. Negro, L. M. Nieto and H. Panahi: *Tavis-Cummings models and their quasi-exactly solvable Schrödinger Hamiltonians.*

2005.10340

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

N. Aizawa, Z. Kuznetsova and F. Toppan: *$\mathbb{Z}_2 \times \mathbb{Z}_2$ -graded mechanics: the quantization.*

2005.10759

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

Pedro Cisneros-Velarde and Francesco Bullo: *Multi-group SIS Epidemics with Simplicial and Higher-Order Interactions.*

2005.11404

[math.OC, cs.SY, eess.SY, physics.bio-ph]

Can Chen, Anthony Bloch and Indika Rajapakse: *Controllability of Uniform Hypergraphs.*

2005.12244

[math.OC, cs.SI, cs.SY, eess.SY]

Links of interest

Geometry, Mechanics and Control Network

Journal of Geometric Mechanics - March 2020, Vol 12, Issue 1

International Mathematical Union (IMU) Newsletter - May 2020, Net 101

Instituto de Ciencias Matemáticas (ICMAT) Newsletter - First semester 2020, Number 19

International Association of Mathematical Physics Bulletin - April 2020

European Mathematical Society

Royal Spanish Mathematical Society (RSME)

International Association of Mathematical Physics

Research Webinars Around the World (Several topics)

Latin American Cyber Colloquium on Mathematics

Open Access American Institute of Mathematical Sciences (AIMS) Journal

Euraxess Spain

European Research Council

International Cooperation “Open to the World”

International Center of Pure and Applied Mathematics (CIMPA)

Mathematics in Spain

Open Access Mathematics Journals

Open Access Physics Journals

Societat Catalana de Matemàtiques (SCM) journal on Mathematics

Mathematics in Europe

SIAM Activity Group on Control and Systems Theory Prize

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

International Mathematical Union Awards and Prizes

Other Prizes of International Mathematical Union

American Mathematical Society Prizes and Awards

Mathematical Association of America Awards

Association for Women in Mathematics Awards

IEEE Control Systems Society Awards

Royal Society of London Premier Medals and Awards

London Mathematical Society Prizes

The Shaw Prize

The Henri Poincaré Prize

European Mathematical Society Prizes

Fermat Prize

Society for Industrial and Applied Mathematics Prizes

Noether Lectures Award

The Royal Society Grants

The Royal Society’s medals and award

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