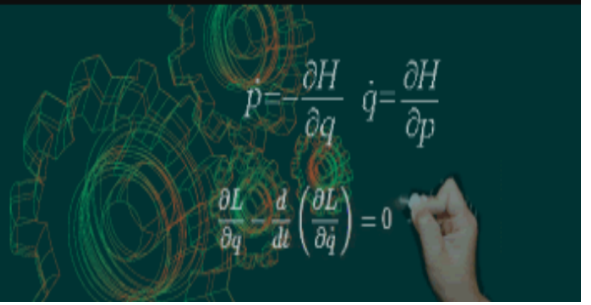




GMC Network



Geometry, Mechanics and Control Network Infosheet

January 2020

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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.

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.

"Geometry, Mechanics, and Dynamics". Conference in Honor of the 70th Birthday of Tudor Ratiu.

20–24 July 2020, Lausanne, Switzerland.

Other conferences

Symplectic Geometry, Contact Geometry and Interactions.

6–8 February 2020, Antwerpen, Belgium.

Group Actions in Arithmetic and Geometry (CIMPA School).

17–28 February 2020, Yogyakarta, Indonesia.

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

19–22 February 2020, Ebsdorfergrund, Germany.

Dynamical aspects of pseudo-Riemannian geometry.

2–6 March 2020, Braga, Portugal.

International Conference on Physics.

9–10 March 2020, Rome, Italy.

Tensor categories and topological quantum field theories.

16–20 March 2020, Berkeley, USA.

Geometric Variational Problems.

23–27 March 2020, Ulm, Germany.

New Perspectives on Sys Mirror Symmetry.

30 March–1st April 2020, London, England.

High Dimensional Hamilton-Jacobi Methods in Control and Differential Games.

30 March–3st April 2020, Los Angeles, USA.

Workshop on classical and quantum aspects of symplectic geometry.

6–9 April 2020, Nantes, France.

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

6–9 May 2020, Telč, Czech Republic.

Quantum Topology and Geometry.

11 – 15 May 2020, Luminy, France.

Geometry and Dynamics of Foliations.

18–22 May 2020, Luminy, France.

Intensive Period on Poisson Geometry and Mathematical Physics.

18 May–17 July 2020, Fisciano, Italy.

2nd World Wide Congregation on Physics.

25–26 May, 2020, Rome, Italy.

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

7–12 June 2020, Banff, Canada.

22th International Conference on Geometry, Integrability and Quantization.

8–13 June 2020, Varna, Bulgaria.

6th International Conference on Physics.

15–16 June 2020, Barcelona, Spain.

Dynamics, SCV and CR Geometry.

15–19 June 2020, Nice, France.

Geometric Flows.

15–26 June 2020, Athens, Greece.

IX School on Geometry and Physics.

22–26 June 2020, Białowieża, Poland.

Foliation Theory and Complex Geometry.

22–26 June 2020, Luminy, France.

Digital Geometry and Discrete Variational Calculus.

22–26 June 2020, Luminy, France.

XXXIX Workshop on Geometric Methods in Physics.

28 June–04 July 2020, Białowieża, Poland.

Geometry Festival.

29 June–03 July 2020, Veszprém, Hungary.

Advanced Variational Methods for Solid Mechanics.

29 June–03 July 2020, Trieste, Italy.

Pseudo-Hermitian Hamiltonians in Quantum Physics.

29 June–03 July 2020, Santa Fe, United States.

CIMPA-IASBS Research School on Spectra in Riemannian and Symplectic Geometry.

4–15 July 2020, Zanjan, Iran.

8th European Congress of Mathematics.

5–11 July 2020, Portoroz, Slovenia.

Poisson 2020 Summer School.

6–10 July 2020, Fisciano, Italy.

Poisson 2020 Conference.

12–17 July 2020, Napoli, Italy.

21st IFAC World Congress on Automatic Control.

12–17 July 2020, Berlin, Germany.

Poisson 2020 International Conference.

13–17 July 2020, Napoli, Italy.

Integrable Systems in Geometry and Mathematical Physics.

13–17 July 2020, Trieste, Italy.

Job offers, fellowships and supports

Master Scholarships

M.Sc. in Physics Scholarships.
Universidad de Valladolid, Valladolid, Spain

Closing date: 10 March 2020.

Ph.D. offers

'La Caixa' PhD positions.
ICMAT, Madrid, Spain
Closing date: 4 February 2020.

PhD Candidate in Applied Mathematics.
Radboud University, Nijmegen, Netherlands
Closing date: 9 February 2020.

PhD Positions in Mathematics.
Universities of Coimbra and Porto, Portugal
Closing date: 15 February 2020.

PhD position in Differential Geometry.
Vienna School of Mathematics, Vienna, Austria
Closing date: 20 February 2020.

PhD position in Regularity and Approximations in Optimal Control.
Vienna School of Mathematics, Vienna, Austria
Closing date: 20 February 2020.

PhD positions in mathematics.
University of Luxembourg, Luxembourg
Closing date: 1 March 2020.

Postdoctoral fellowships

2 Postdoctoral positions - Motions in the Planetary Problem.
Universita di Padova, Padua, Italy
Closing date: 18 February 2020.

Postdoctoral Fellows in Mathematics.
National Center for Theoretical Sciences, Taiwan
Closing date: 28 February 2020.

Postdoctoral position in Mathematical Physics.
Czech Academy of Sciences, Rez, Czech Republic
Closing date: 29 February 2020.

Postdoctoral positions in geometry.
Heidelberg University, Germany
Closing date: Open until filled.

Postdoctoral fellowships in algebraic geometry and mathematical sciences.
Harvard University, Massachusetts, United States
Closing date: Open until filled.

PhD positions in mathematics of Shape Learning.
Chalmers University of Technology, Gothenburg, Sweden
Closing date: 6 March 2020.

PhD positions.
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.

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.

Offers for researchers

Assistant Professor in Mathematics.
Higher School of Economics, Moscow, Russia
Closing date: 15 February 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.
Distinguished junior or senior scientists from outside Europe up to two weeks.
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

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

Hot Topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

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

European Commission, Marie Skłodowska-Curie Actions.

Deadline: April, 28.

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.

Preprints and papers

Network's members

Ángel Ballesteros, Giulia Gubitosi and Francisco J. Herranz: *Lorentzian Snyder spacetimes and their Galilei and Carroll limits from projective geometry.*

1912.12878

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

Madeleine Jotz Lean, Rajan Amit Mehta and Theocharis Papantonis: *Modules and representations up to homotopy of Lie n -algebroids.*

2001.01101

[math.DG]

J. L. Carmona Jiménez and M. Castrillón López: *The Ambrose-Singer Theorem for general homogeneous manifolds with applications to symplectic*

geometry.

2001.06254

[math.DG]

Leonardo J. Colombo and Maria Emma Eyrea Irazu: *Symmetries and periodic orbits in simple hybrid Routhian systems.*

2001.08941

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

Leonardo J. Colombo, David Martín de Diego, Aradhana Nayak and Rodrigo T. Sato Martín de Almagro: *Geometric Optimal Trajectory Tracking of Nonholonomic Mechanical Systems.*

2001.10346

[math.OC, math.DG]

Network's collaborators

Boris Khesin, Gerard Misiolek and Klas Modin: *Geometric Hydrodynamics of Compressible Fluids.*

2001.01143

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

Jyotishman Bhowmick, Debashish Goswami and Giovanni Landi: *Levi-Civita connections and vector fields for noncommutative differential calculi*.
2001.01545
[math.QA, math-ph, math.MP]

Faruk Güngör, Jaume Llibre and Chara Pantazi: *Darboux integrability and dynamics of the Basener-Ross population model*.
2001.02565
[math.DS, math.CA]

David Martínez Torres: *Canonical domains for coadjoint orbits*.
2001.02623
[math.DG, math.SG]

William Clark, Maani Ghaffari and Anthony Bloch: *Nonparametric Continuous Sensor Registration*.
2001.04286
[math.OC, cs.CV, cs.LG, cs.RO]

Alexey V. Bolsinov, Andrey Yu. Konyaev and Vladimir S. Matveev: *Applications of Nijenhuis geometry: Nondegenerate singular points of Poisson-Nijenhuis structures*.
2001.04851
[math.DG, math-ph, math.MP]

Thoan Do and Geoff Prince: *The inverse problem in the calculus of variations: new developments*.
2001.06771
[math.DG, math-ph, math.DS, math.MP, math.OC]

Victor Guillemin and Zuoqin Wang: *Inverse spectral results for non-abelian group actions*.
2001.08305
[math.SP, math.DG]

Molei Tao and Tomoki Ohsawa: *Variational Optimization on Lie Groups, with Examples of Leading (Generalized) Eigenvalue Problems*.
2001.10006
[cs.LG, cs.NA, math.NA, math.OC, stat.ML]

A. Linero Bas and G. Soler López: *Minimal non uniquely ergodic flipped IETs*.
2001.10989
[nlin.CD, math.DS]

Giovanni Canepa, Alberto S. Cattaneo and Michele Schiavina: *Boundary structure of General Relativity in tetrad variables*.
2001.11004
[math-ph, gr-qc, hep-th, math.MP]

Links of interest

Geometry, Mechanics and Control Network

Journal of Geometric Mechanics (JGM)

International Mathematical Union-Net 98

European Mathematical Society

Royal Spanish Mathematical Society (RSME)

ICMAT Newsletter

Open Access AIMS Journal

Euraxess Spain

European Research Council

International Center of Pure and Applied Mathematics (CIMPA)

Mathematics in Spain

Open Access Mathematics Journals

Open Access Physics Journals

Reports@SCM journal

Mathematics in Europe

Jobs for Mathematicians

Academic positions in Spain, France and Belgium

Academic jobs in Mathematics in Europe

Academic jobs in Mathematics in the UK

Academic jobs in Mathematics worldwide

Academic jobs in Mathematics in Spain

Academic jobs in Mathematics

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

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