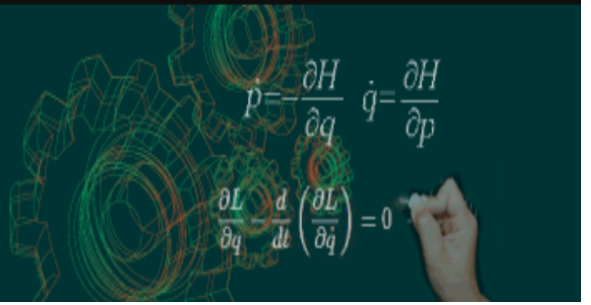




# GMC Network



## *Geometry, Mechanics and Control Network Infosheet*

April 2020

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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 (CLAM 2020 - Postponed).**

20–24 July 2020, Montevideo, Uruguay.

### Outstanding events

**Online Seminar on Geometry, Dynamics and Mechanics.**

Boris Khesin, May 19th.

**Math Webinars Around the World (Several topics).**

Livestreaming links for direct access.

**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.

**Special Session “Geometric Mechanics, Dynamics and Control” in honor of Anthony Bloch at XIII AIMS Conference on Dynamical Systems (Postposed).**

6–9 June 2020, Atlanta, USA.

**“Geometry, Mechanics, and Dynamics”. Conference in Honor of the 70th Birthday of Tudor Ratiu (Cancelled).**

20–24 July 2020, Lausanne, Switzerland.

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

16–22 August 2020, Shenyang, China.

**XXIX International Fall Workshop on Geometry and Physics.**

1 – 4 September 2020, Covilhã, Portugal.

## Other conferences

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**Regularity theory for elliptic and parabolic systems and problems in continuum mechanics (Cancelled to next year).**

6–9 May 2020, Telč, Czech Republic.

**Quantum Topology and Geometry (Contact the organizers).**

11 – 15 May 2020, Luminy, France.

**Applied Newton-Cartan Geometry (Postponed).**

11 – 15 May 2020, Nordita, Stockholm.

**Poisson meeting in La Rochelle (Postponed).**

14 – 15 May 2020, La Rochele, France.

**Geometry and Dynamics of Foliations (Virtual conference).**

18–22 May 2020, Luminy, France.

**Geometry and Polish groups (Cancelled).**

18–22 May 2020, Luminy, France.

**Intensive Period on Poisson Geometry and Mathematical Physics (Postponed to 2021).**

18 May–17 July 2020, Fisciano, Italy.

**GAP XVII - Deformations and higher structures (Postponed).**

25–29 May, 2020, Vancouver, Canada.

**Virtual Geometric Group Theory Conference.**

1–5 June 2020, Luminy, France.

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

7–12 June 2020, Banff, Canada.

**22th International Conference on Geometry, Integrability and Quantization.**

8–13 June 2020, Varna, Bulgaria.

**Third School and Workshop Mathematical Challenges in Quantum Mechanics (Rescheduled to June 2021).**

8–13 June 2020, Como, Italy.

**6th International Conference on Physics (Webinar).**

15–16 June 2020, Barcelona, Spain.

**Dynamics, SCV and CR Geometry.**

15–19 June 2020, Nice, France.

**Geometric Flows (Postponed until 2021).**

15–26 June 2020, Athens, Greece.

**Mathematical and Conceptual Aspects of Quantum Theory (Cancelled).**

21–26 June 2020, Oaxaca, Mexico.

**Geometric Structures and Supersymmetry (Possibility of postponement).**

22–25 June 2020, Tromsø, Norway.

**VIII Iberoamerican Congress on Geometry (Postponed).**

22–26 June 2020, Morelia, Mexico.

**IX School on Geometry and Physics.**

22–26 June 2020, Białowieża, Poland.

**Foliation Theory and Complex Geometry (Postponed to 23-27 November 2020).**

22–26 June 2020, Luminy, France.

**Digital Geometry and Discrete Variational Calculus.**

22–26 June 2020, Luminy, France.

**Geometric Representation Theory.**

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

**XXXIX Workshop on Geometric Methods in Physics.**

28 June–04 July 2020, Białowieża, Poland.

**Geometry Festival (Postponed to 2021).**

29 June–03 July 2020, Veszprém, Hungary.

**Advanced Variational Methods for Solid Mechanics (Cancelled).**

29 June–03 July 2020, Trieste, Italy.

**Pseudo-Hermitian Hamiltonians in Quantum Physics (Postponed by one year).**

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

**Seminal Interactions Between Mathematics and Physics. II (Postponed probably to 2021).**

30 June–03 July 2020, Rome, Italy.

**School on Spectra in Riemannian and Symplectic Geometry (Postponed).**

4–15 July 2020, Zanjan, Iran.

- 8th European Congress of Mathematics.**  
5–11 July 2020, Portoroz, Slovenia.
- Poisson 2020 Summer School (Postponed to 2021).**  
6–10 July 2020, Fisciano, Italy.
- CIMPA School: Optimal Control and its Applications in Economics, Engineering and the Environment (Postponed).**  
6–17 July 2020, Rabat, Morocco.
- Geometry-Topology Summer School.**  
6–18 July 2020, Istanbul, Turkey.
- Poisson 2020 Conference (Postponed to 2021).**  
12–17 July 2020, Napoli, Italy.
- 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.
- Poisson 2020 International Conference.**  
13–17 July 2020, Napoli, Italy.
- Conformal field theories in higher dimensions 2020.**  
13–17 July 2020, Moscow, Russia.
- Integrable Systems in Geometry and Mathematical Physics.**  
13–17 July 2020, Trieste, Italy.
- 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.
- 7th International Conference on Applied Physics and Space Science (Webinar).**  
17–18 August 2020, Paris, France.
- Dynamics Days Europe - XL (Postponed to 2021).**  
24–28 August 2020, Nice, 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.
- Second IMA Conference on Mathematics of Robotics (Postponed until September 2021).**  
9 – 11 September 2020, Manchester, United Kingdom.
- 2nd IMA Conference on Mathematics of Robotics.**  
09–11 September 2020, Manchester, United Kingdom.
- Summer School in Mathematical Physics 2020 (Postponed until 13–17 September 2021).**  
14–18 September 2020, Munich, Germany.
- 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.

## Job offers, fellowships and supports

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### Ph.D. offers

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#### PhD positions in Algebraic Geometry.

University of Duisburg-Essen, Essen, Germany

Closing date: 12 May 2020.

#### PhD position in probability and Monte Carlo methods.

KTH, Stockholm, Sweden

Closing date: 28 May 2020.

#### IMU Breakout Graduate Fellowship Program.

Research centers in a developing country

Closing date: 31 May 2020.

#### PhD in Control Theory.

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

Closing date: 30 June 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 fellowships

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#### 2 Postdoctoral positions in Control of Nonlocal Equations.

Department of Mathematics 'Tullio Levi-Civita', Padova, Italy

Closing date: 21 May 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.

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.

### Offers for researchers

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#### Several positions at UPM.

Universidad Politécnica de Madrid, Madrid, Spain

Closing date: 5 May 2020.

#### Several positions at UC3M.

Universidad Carlos III, Madrid, Spain

Closing date: 13 May 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

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### 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

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### Short-term exchanges of research and business staff.

Research and Innovation Staff Exchange (RISE) 2020.

Deadline: May, 12 2020.

### Individual Fellowships 2020.

European Commission.

Deadline: September, 9 2020.

### Call for projects of CIMPA Schools 2022.

Research schools in emerging countries.

Deadline: September, 18 2020.

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

European Commission.

Deadline: September, 29 2020.

### 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

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### Preprints

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### Network's members

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Alexandre Anahory Simões, Manuel de León, Manuel Lainz Valcázar and David Martín de Diego: *Contact geometry for simple thermodynamical systems with friction.*

2004.01989

[math-ph, math.MP]

Florio M. Ciaglia, Fabio Di Cosmo, Alberto Ibort and Giuseppe Marmo: *Schwinger's Picture of Quantum Mechanics IV: Composition and independence.*

2004.02472

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

Daniel Peralta-Salas and Radu Slobodeanu: *Contact structures and Beltrami fields on the torus and the sphere.*

2004.10185

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

Alexandre Anahory Simões, Juan Carlos Marrero and David Martín de Diego: *Jacobi fields in non-holonomic mechanics.*

2004.10457

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

Lukas Gonon, Lyudmila Grigoryeva and Juan Pablo Ortega: *Memory and forecasting capacities of non-linear recurrent networks.*

2004.11234

[math.OC, cs.LG, cs.NE, math.ST, stat.ML, stat.TH]

## Network's collaborators

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Andreas Fring and Takanobu Taira: *Massive gauge particles versus Goldstone bosons in non-Hermitian non-Abelian gauge theory.*

2004.00723

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

Xiaoyi Cui and Chenchang Zhu: *A holography theory of Poisson sigma model and deformation quantization.*

2004.00774

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

Clara Cufí-Cabré and Jaume Llibre: *Minimal sets of Lefschetz periods of the Morse-Smale diffeomorphisms on  $S^n$  and  $S^m \times S^n$ .*

2004.01465

[math.DS]

Alice Fialowski, Ekaterina Fuchs, Elena Fuchs, Boris Khesin, Alexandre Kirillov, Fedor Malikov, Valentin Ovsienko, Alexei Sossinsky and Serge Tabachnikov: *On the 80th Birthday of Dmitry Borisovich Fuchs.*

2004.03270

[math.HO, math.DG, physics.hist-ph]

Supriyo Dutta and Partha Guha: *A System of Billiard and Its Application to Information-Theoretic Entropy.*

2004.03444

[math-ph, cs.DM, cs.IT, math.CO, math.DS, math.IT, math.MP]

Andreas Fring and Rebecca Tenney: *Spectrally equivalent time-dependent double wells and unstable anharmonic oscillators.*

2004.05612

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

Camille Laurent-Gengoux and Leonid Ryvkin: *The neighbourhood of a singular leaf.*

2004.07019

[math.DG]

S. Kuru, I. Marquette and J. Negro: *The general Racah algebra as the symmetry algebra of generic systems on pseudo-spheres.*

2004.07048

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

Oscar García-Prada and Dietmar Salamon: *A moment map interpretation of the Ricci form, Kähler-Einstein structures, and Teichmüller spaces.*

2004.08659

[math.SG]

Santiago Capriotti: *Geometrical setting for the correspondence between gravity and Chern-Simons field theories.*

2004.10785

[math-ph, math.MP]

A. Cañas, V. Muñoz, M. Schütt and A. Tralle: *Quasi-regular Sasakian and K-contact structures on Smale-Barden manifolds.*

2004.12643

[math.DG, math.AG, math.SG]

Dan Cristofaro-Gardiner, Tara S. Holm, Alessia Mandini and Ana Rita Pires: *Infinite staircases and reflexive polygons.*

2004.13062

[math.SG]

## Links of interest

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Geometry, Mechanics and Control Network

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

International Mathematical Union (IMU) Newsletter - March 2020, Net 100

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

European Mathematical Society

Royal Spanish Mathematical Society (RSME)

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	Other Prizes of International Mathematical Union
Open Access Mathematics Journals	American Mathematical Society Prizes and Awards
Open Access Physics Journals	Mathematical Association of America Awards
Societat Catalana de Matemàtiques (SCM) journal on Mathematics	Association for Women in Mathematics Awards
Mathematics in Europe	IEEE Control Systems Society Awards
Jobs for Mathematicians	Royal Society of London Premier Medals and Awards
Academic positions in Spain, France and Belgium	London Mathematical Society Prizes
Academic jobs in Mathematics in Europe	The Shaw Prize
Academic jobs in Mathematics in the UK	European Mathematical Society Prizes
Academic jobs in Mathematics worldwide	Fermat Prize
Academic jobs in Mathematics in Spain	Society for Industrial and Applied Mathematics Prizes
Academic jobs in Mathematics	Noether Lectures Award
SIAM Activity Group on Control and Systems Theory Prize	The Royal Society Grants
SIAM Activity Group on Control and Systems Theory Best SICON Paper Prize	The Royal Society's medals and award
International Mathematical Union Awards and Prizes	

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