



GEOMETRY, DYNAMICS
AND FIELD THEORY NETWORK

February 2026

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Geometry, Dynamics and Field Theory Network Infosheet

Network's activities

XX Young Researchers Workshop in Geometry, Dynamics, and Field Theory.

25–27 March 2026, Loughborough, United Kingdom.

XVIII International ICMAT Summer School on Geometry, Dynamics and Field Theory.

22–26 June 2026, Madrid, Spain.

Other scientific events

Women in Computational Methods for PDEs.

1–6 March 2026, Banff, Canada.

High-Dimensional Learning Dynamics.

1–6 March 2026, Banff, Canada.

Contact geometry, general relativity, and thermodynamics.

2–6 March 2026, New York, USA.

Nonlinear Dynamics, Multiscale Interactions and Beyond.

2–6 March 2026, São Paulo, Brazil.

Horizons in nonlinear PDEs.

9–13 March 2026, Ulm, Germany.

Higher Structures from Symmetries in Quantum Field Theory.

15–20 March 2026, Oberwolfach, Germany.

Riemann200: Mathematics and Physics.

16–20 March 2026, Hannover, Germany.

Mechanics, Geometry, Integrability.

16–20 March 2026, Novosibirsk, Russia.

Workshop on Geometric and Functional Analysis.

18–20 March 2026, Madrid, Spain.

- Recent Progress in Topological and Geometric Structures in Low Dimensions.**
23–27 March 2026, Berkeley, USA.
- Random Geometry in Math and Physics.**
23 March–1 May 2026, New York, USA.
- Kinetic theory and fluid mechanics: couplings, scalings and asymptotics.**
24–28 March 2026, Luminy, France.
- Mathematical Methods of Mechanics.**
25 March 2026, Moscow, Russia.
- 16th International Conference on Applied Physics and Mathematics.**
10–12 April 2026, Osaka, Japan.
- Groups and Dynamics: Topology, Measure, and Borel Structure.**
12–17 April 2026, Oberwolfach, Germany.
- Geometric Analysis on Asymptotically Hyperbolic Manifolds.**
12–17 April 2026, Banff, Canada.
- Spring workshop: The Mathematical Roads to QFT.**
13–17 April 2026, Kyoto, Japan.
- Women in Mathematical Physics 3.**
13–17 April 2026, Edinburgh, Scotland.
- Workshop: Random Geometry in Math and Physics.**
13–17 April 2026, New York, USA.
- Mathematical Developments in Geophysical Fluid Dynamics.**
13 April–10 July 2026, Luminy, France.
- Geometric structures and discrete group actions.**
14–18 April 2026, Luminy, France.
- Workshop on Geometric Analysis.**
20–23 April 2026, Valencia, Spain.
- Homogeneous Dynamics and Anosov Representations.**
20–24 April 2026, Berkeley, USA.
- International Conference on Mathematical Methods in Physics.**
20–24 April 2026, Marrakesh, Morocco.
- Fluid solid interactions and related problems.**
21–25 April 2026, Luminy, France.
- Workshop on Poisson geometry.**
23–26 April 2026, Montreal, Canada.
- Fluid-Flows on Riemannian Manifolds and the Navier-Stokes Equations.**
24 April–1 May 2026, Oberwolfach, Germany.
- Geometric Analysis and Applications.**
25 April 2026, Texas, USA.
- Workshop for Research and Workforce Development in Fluid Mechanics II.**
25–26 April 2026, Lincoln, USA.
- Fluid-Flows on Riemannian Manifolds and the Navier-Stokes Equations.**
26 April–1 May 2026, Oberwolfach, Germany.
- International Conference on Mathematical Methods in Physics.**
27–30 April 2026, Marrakesh, Morocco.
- Dispersive Integrable Equations: Pathfinders in Infinite-Dimensional Hamiltonian Systems.**
28 April–2 May 2026, Luminy, France.
- The role of Geometry in Quantum Physics: Foundations and emerging Technologies.**
3–8 May 2026, Oaxaca, Mexico.
- Quantum Fields Dynamics.**
3 May–2 July 2026, New York, USA.
- Metric Geometry of Singularities.**
4–10 May 2026, Będlewo, Poland.
- International Conference on Control and Robotics Engineering.**
8–10 May 2026, Kyoto, Japan.
- Complex Geometry and Dynamical Systems.**
10–15 May 2026, Oberwolfach, Germany.
- Singularity Formation and Propagation in Gas Dynamics.**
11–14 May 2026, Toronto, Canada.
- Foundations of Computational Geometry and Topology.**
18–21 May 2026, Providence, USA.
- V Argentine Meeting on Geometric Mechanics and Mathematical Physics.**
26–29 May 2026, Bahía Blanca, Argentina.
- International Conference on Complex and Differential Geometry.**

25–29 May 2026, Trieste, Italy.

Modern Methods in Nonlinear Elliptic and Parabolic PDE.

25–29 May 2026, Arbanasi, Bulgaria.

General Relativity Conference: Black holes in General Relativity, from transient behavior to long time dynamics.

25–29 May 2026, Toronto, Canada.

Physics and Mathematics of hydrodynamic and wave turbulence.

26–30 May 2026, Luminy, France.

Moduli spaces and graph complexes in algebra, geometry and physics.

31 May–5 June 2026, Les Diablerets, Switzerland.

Ergodic geometry and discrete groups in irregular worlds beyond Riemann.

1–5 June 2026, Luminy, France.

New challenges for Dirac operators.

1–5 June 2026, Madrid, Spain.

School: Free Boundary problems in Life Science and Fluids.

1–5 June 2026, Toronto, Canada.

Complexity, information, and tractable simulations of quantum many-body dynamics.

1 June–2 July 2026, New York, USA.

Simons Semester Geometric analysis.

1 June–5 July 2026, Warsaw and Będlewo, Poland.

XXVI International Conference Geometry, Integrability and Quantization.

4–11 June 2026, Varna, Bulgaria.

Hamiltonian Systems and Celestial Mechanics.

7–12 June 2026, Oaxaca, Mexico.

Conference Calculus of Variations in Materials Science.

7–12 June 2026, Będlewo, Poland.

Partial Differential Equations and Spectral Theory.

8–10 June 2026, Texas, USA.

International School-Workshop on Quantum Rings: A Playground for Quantum Mechanical Paradigm and Topological Physics.

8–12 June 2026, Natal, Brazil.

Workshop: Free Boundary problems in Life Science and Fluids.

8–12 June 2026, Toronto, Canada.

Geometry, Dynamics, and Computer-Assisted Proofs.

10–12 June 2026, Heidelberg, Germany.

Operator Theory in Quantum Physics.

14–19 June 2026, Będlewo, Poland.

Analysis of Partial Differential Equations arising in Physics.

15–17 June 2026, New Jersey, USA.

Integrable systems: regularity, non-commutativity and random matrix theory.

15–19 June 2026, Edinburgh, Scotland.

Dynamics of Quantum Systems and Nonlinear Waves.

15–19 June 2026, Como, Italy.

Geometry and Dynamics of Discrete Actions.

15–20 June 2026, Cuernavaca, Mexico.

Modern Advances in Geometric Analysis.

21–27 June 2026, Będlewo, Poland.

Summer conference: The Mathematical Roads to QFT.

22–26 June 2026, Kyoto, Japan.

Paths to Quantum Field Theory.

22–26 June 2026, New York, USA.

New directions in thermodynamic formalism.

22–26 June 2026, Luminy, France.

Geometry and Topology in Low Dimensions: Lasting Trends and Emerging Directions.

22–26 June 2026, Budapest, Hungary.

European School of Differential Geometry.

22 June–3 July 2026, L'Aquila, Italy.

Effective Approximation and Dynamics of Many-Body Quantum System.

29 June–3 July 2026, Bremen, Germany.

Frontiers in Noncommutative Geometry and its Applications.

5–10 July 2026, Hangzhou, China.

Regularity theory for evolution equations.

5–10 July 2026, Les Diablerets, Switzerland.

- Variational Problems in the Physical and Data Sciences: Analysis, Modeling, and Simulation.**
5–10 July 2026, Banff, Canada.
- Recent trends in differential geometry.**
5–12 July 2026, Będlewo, Poland.
- International Conference on Experimental Mechanics.**
6–9 July 2026, Palermo, Italy.
- Thematic Sessions at 15th American Institute of Mathematical Sciences Conference.**
6–10 July 2026, Athens, Greece.
- Special Sessions at 15th American Institute of Mathematical Sciences Conference.**
6–10 July 2026, Athens, Greece.
- Differential geometric methods in modern physics.**
7–11 July 2026, Będlewo, Poland.
- Dynamical Systems: Inverse Problems, Stability and Control Processes.**
9–10 July 2026, Moscow, Russia.
- New trends in elliptic PDEs.**
13–17 July 2026, Będlewo, Poland.
- 36th International Colloquium on Group Theoretical Methods in Physics.**
13–17 July 2026, Valladolid, Spain.
- Analysis of Partial Differential Equations arising in Physics.**
13–17 July 2026, New Jersey, USA.
- Automated Reasoning for Quantum Mechanics.**
13–17 July 2026, Leiden, Netherlands.
- XXII Escola de Geometria Diferencial.**
13–17 July 2026, Teresina, Brazil.
- A Panorama of Quantum Topology - Recent Progress in Quantum Algebra, Low-Dimensional Topology, and Mathematical Physics.**
17–24 July 2026, Banff, Canada.
- 17th World Congress on Computational Mechanics.**
19–24 July 2026, Munich, Germany.
- Geometric Methods in Optimization and Numerical Analysis.**
19–24 July 2026, Oberwolfach, Germany.
- Differential-geometric and topological methods in modern physics.**
19–28 July 2026, Będlewo, Poland.
- Physical Mathematics of Quantum Field Theory.**
20–24 July 2026, Amherst, USA.
- Quantum Algorithms for Differential Equations.**
27–31 July 2026, Toronto, Canada.
- Geometric Flows and Related Topics.**
2–7 August 2026, Banff, Canada.
- Partial Differential Equations for Many Particles Systems.**
3–7 August 2026, Providence, USA.
- Poisson 2026 - Summer school.**
3–7 August 2026, Antwerp, Belgium.
- XIV America's Conference on Differential Equations and Nonlinear Analysis.**
3–7 August 2026, Toronto, Canada.
- Summer School Poisson 2026.**
3–7 August 2026, Antwerp, Belgium.
- Second Colombian Geometry and Topology Meeting.**
3–14 August 2026, Cali, Colombia.
- Poisson 2026: Conference.**
10–14 August 2026, Leuven, Belgium.
- Stable and unstable Dynamics in PDEs and Hamiltonian Systems.**
9–14 August 2026, Oaxaca, Mexico.
- Quantum Thermodynamics Conference.**
10–14 August 2026, Natal, Brazil.
- Symposium on Recent advances on Quantum Algorithms for Differential Equations: Theory and Applications.**
10–14 August 2026, Toronto, Canada.
- Recent Breakthroughs and New Perspectives on the Interplay between Fluid Mechanics and Kinetic Theory.**
16–21 August 2026, Banff, Canada.
- International Congress on Differential Geometry and Related Topics.**
17–18 August 2026, Izmir, Turkey.
- Mathematical Foundations of Physical Field Theories.**

17–21 August 2026, Brasov, Romania.

Representation Theory Under the Influence of Quantum Field Theory.

17 August–18 December 2026, Berkeley, USA.

Poisson 2026 - Conference.

19–14 August 2026, Leuven, Belgium.

Moduli Spaces, Quantization and Poisson Geometry.

23–28 August 2026, Les Diablerets, Switzerland.

Physics and mathematics of turbulence in different media.

24 August–9 October 2026, New York, USA.

Geometry and Integrability.

24–27 August 2026, Będlewo, Poland.

Loop Models, Conformal Field Theory, and Geometry.

24–28 August 2026, Luminy, France.

Advances in Nonlinear Partial Differential Equations in Biology.

28–30 August 2026, Banff, Canada.

Calculus of Variations.

30 August–4 September 2026, Oberwolfach, Germany.

Nonlinear Diffusion and related PDEs in (non) Euclidean Settings.

30 August–4 September 2026, Banff, Canada.

Late Summer Conference in Geometric Analysis.

31 August–3 September 2026, Padova, Italy.

Geometric and Probabilistic Aspects in Quantum Field Theory.

31 August–4 September 2026, Luminy, France.

Virtual seminars

Seminar of the Geometry, Dynamics, and Field Theory Thematic Network.

Instituto de Ciencias Matemáticas' seminars on these topics.

Geometry and Applications: Modern Mathematical Approaches (GAMMA) Seminar.

University of Warsaw, the Universitat Rovira i Virgili, and the Polytechnic University of Catalonia.

Reading Groupoid Sessions (In person or virtually).

A collective study sessions dedicated to Lie Groupoids and their connection to Mathematical Physics.

Advanced Lectures on Theoretical Physics and Mathematics.

ICTP-PWF Latin America-Physics Latam New Seminar Series.

Trans-Carpathian Seminar on Geometry and Physics.

A merger of Bucharest Geometry and Physics Seminar and Warsaw Seminar on Geometric Methods in Physics.

One World IAMP Mathematical Physics Seminar.

Seminar of International Association of Mathematical Physics.

Seminar on Geometry with Symmetries.

On Lie group actions in Riemannian geometry.

Control and Optimization Seminar.

Louisiana State University.

Differential Geometry Seminar Torino.

Organised by the Differential Geometry groups of Università di Torino and Politecnico di Torino.

Symplectic Zoominar.

Online Seminar organized by CRM-Montréal, Princeton/IAS, Tel Aviv, and Paris.

ICTP Virtual Seminars.

Online Seminar organized by International Centre for Theoretical Physics.

Theory of Duality Seminar.

Department of Mathematical Methods in Physics, University of Warsaw.

Geometry and Topology Online.

Warwick Mathematics Institute.

Instituto Balseiro Seminar.

Instituto Balseiro' public seminars live on Youtube.

Opportunities

Ph.D. offers

PhD Position in Structure-Preserving Methods for Variational Inequalities.

8 March 2026

Closing date: Simula Research Laboratory, Oslo, Norway.

Up to four PhD students in Mathematics, Applied Mathematics, or Statistics.

Uppsala University, Sweden

Closing date: 16 March 2026.

PhD Scholarship.

Faculty of Science and Engineering, University of Nottingham Ningbo, China

Closing date: 31 March 2026.

PhD Position in Mathematical Physics.

Institut Camille Jordan, Lyon/Saint-Etienne, France

Closing date: 5 April 2026.

PhD Studentship - Machine Learning Density Functionals from Quantum Computing.

19 April 2026

Closing date: University of Nottingham, England, UK.

Predocctoral position on Geometric analysis under curvature bounds.

Faculty of Mathematics, University of Vienna, Austria

Closing date: No fixed application deadline. Intended starting date: 1 Sept.-1 Nov. 2026.

Doctoral Researcher in Mathematics.

University of Luxembourg, Luxembourg

Closing date: not specified. Planned Start Date: September 2026.

PhD in Theoretical Quantum Physics.

University of Luxembourg, Luxembourg

Closing date: Open. Applications will be processed upon reception.

Postdoctoral fellowships

Postdoc in quantum groups and applications to quantum information theory.

Institute of Mathematics of the Polish Academy of Sciences (IMPAN), Warsaw, Poland

Closing date: 1 March 2026, at 23:59 CET.

Fields Postdoctoral Fellowship on Quantum Algorithms for Differential Equations.

Fields Institute, Toronto, Canada

Closing date: 2 March 2026.

SONATINA 10 call for research projects.

National Science Centre, Poland

Closing date: 16 March 2026, 14:00 CET..

Assistant Professor in Mathematics or Information Technology.

Uppsala University, Sweden

Closing date: 20 March 2026.

Research Assistant in symplectic topology.

Geometry and Topology Group, University of Sheffield, England, UK

Closing date: 25 March 2026.

Postdoc on Numerics of Partial Differential Equations, Complexity Reduction, and Scientific Computing.

University of Innsbruck, Austria

Closing date: 25 March 2026.

Postdoctoral position for young mathematical scientists.

Centre de Recherches Mathématiques (CRM) and Université Laval, Québec, Canada

Closing date: 29 March 2026.

Postdoctoral positions in Mathematics.

Aarhus University, Denmark

Closing date: 30 March 2026 at 23:59 CEST.

Postdoctoral position in mathematics.

Institute of Mathematics, Czech Academy of Sciences, Prague, Czech Republic

Closing date: 31 March 2026.

Postdoc in noncommutative geometry.

Ariel University, Various locations, Israel

Closing date: 31 March 2026.

Paul Olum Postdoctoral Scholar.

University of Oregon, Eugene, Oregon, USA

Closing date: 31 March 2026.

Beatriu de Pinós Program.

Catalonia, Spain

Closing date: 24 July 2026 at 11:00 AM CEST.

Postdoctoral Researcher in Geometry and Dynamics.

University of Luxembourg, Luxembourg

Closing date: not specified. Planned Start Date: September 2026.

Humboldt Research Fellowship for Postdoctoral Researchers.

Alexander von Humboldt Foundation

Closing date: Open.

Tenure-Track and Post-Doc Positions.

Mathematics Research Lab, Baku State University, Azerbaijan

Closing date: The hiring committee will begin reviewing applications immediately. Positions will

remain open until filled.

Postdoctoral Positions in Differential Geometry, Algebraic Geometry, Topology and Quantum Field Theory.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Research Assistant Professor Positions in Differential Geometry, Algebraic Geometry, Topology and Quantum Field Theory.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Offers for researchers

Tenure Track Position in Applied Geometry.

Graz University, Austria

Closing date: 8 March 2026.

Tenure track Assistant / Associate / Full Professor and Part-time Professor.

School of Mathematics, Harbin Institute of Technology, China

Closing date: 12 March 2026.

Teaching positions.

Dept. of Applied Mathematics, Universidad Pontificia de Comillas, Madrid, Spain

Closing date: 15 March 2026.

Assistant Professor in Mathematics or Information Technology.

Uppsala University, Sweden

Closing date: 20 March 2026.

Tenure-track academic positions.

Department of Mathematical Engineering, Universidad de Concepción, Chile

Closing date: 30 March 2026.

Full-time Faculty Position in Mathematics.

Department of Mathematics, Universidad de Concepción, Chile

Closing date: 30 March 2026.

Tenure-track academic position reserved for female candidates.

Department of Mathematical Engineering, Universidad de Concepción, Chile

Closing date: 30 March 2026.

Assistant Professor in Mathematics.

Centre for Geometry and Physics, Uppsala University, Sweden

Closing date: 2 April 2026.

Call for expressions of interest in a position of Professor of Mathematics or Computer Science.

Università di Padova, Italy

Closing date: 30 April 2026.

Tenure-track/Tenured Faculty Positions.

Pohang University of Science and Technology (POSTECH), South Korea

Closing date: 15 July 2026.

Several positions in areas including Computational Mathematics, Complex Geometry, Geometric Analysis, and Mathematical Physics.

School of Mathematics and Statistics, Wuhan University, China

Closing date: 26 November 2026.

Tenured/tenure-track faculty.

Institute of Mathematical Sciences, ShanghaiTech University, Shanghai, China

Closing date: Open. Applications will be evaluated on a rolling basis until all the positions are filled.

Tenure-Track and Post-Doc Positions.

Mathematics Research Lab, Baku State University, Azerbaijan

Closing date: The hiring committee will begin reviewing applications immediately. Positions will remain open until filled.

Faculty Positions in Mathematical Sciences.

School of Mathematics and Statistics, Beijing Institute of Technology, China

Closing date: Applications are reviewed on a rolling basis year-round. Early submission is encouraged.

Tenure-track Assistant Professor Positions in Differential Geometry, Algebraic Geometry, Topology and Quantum Field Theory.

Institute of Geometry and Physics, University of

Science and Technology of China, Hefei, China

Closing date: none.

Associate and Full Professor Positions in Differential Geometry, Algebraic Geometry, Topology and Quantum Field Theory.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Research visit offers

Abel Visiting Scholar Program.

International Mathematical Union.

Postdoctoral mathematician to visit a research collaborator for a month.

Closing date: 30 April, 31 August, and 31 December.

Simons Visiting Professors at Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Junior or senior scientists from outside Europe.

Closing date: Open.

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.

International Research in Groups at CIRM.

Centre International de Rencontres Mathématiques (CIRM), France.

Small groups of researchers for 2 to 4 weeks.

Closing date: Open at any time.

Research in Residence at CIRM.

Centre International de Rencontres Mathématiques (CIRM), France.

2 to 4 researchers.

Closing date: Open at any time.

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 CRM.

Centre de Recerca Matemàtica, Catalonia, Spain.
Postdoctoral positions and research in pairs.

Closing date: Any time between 6 and 12 months before the start of the desired stay.

Visiting research fellow in Kent State University.

Mathematics Department-KSU, Ohio, USA.

Visiting for scholar researchers.

Closing date: Open.

Financial support

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

Hot topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Full or Half-year Scientific Programs.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Hot Topic Workshops.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Revisiting Fundamental Problems Workshop.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Workshop at CIRM.

Centre International de Rencontres Mathématiques, France.

Deadline: Open at any time.

CIMPA Online Courses Program.

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

Deadline: Open all year.

Support for Workshop Organization at Banff.

Banff International Research Station.

Deadline: No precise deadline.

Proposal of a Workshop in the Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Deadline: Open.

Targeted Grants in Mathematical and Physical Sciences.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: At any time.

Hosting a workshop at AIMS South Africa.

Contributions for workshops about AIMS's research focus areas.

Deadline: No precise deadline.

News and publications

Journals

Geometric Mechanics.

Published by World Scientific about applications of geometric methods in mechanics, dynamics, control, transport, stochastic processes, data science, and learning.

Deadline: No precise deadline.

Geometric methods in mechanics and

physics.

Open-access sponsored by the International Research Center for Mathematics & Mechanics of Complex Systems Journal (Italy). On topics such as variational methods, numerical methods, and optimization techniques.

Deadline: No precise deadline.

In Memoriam

Special issue of Geometric Mechanics.

In honor of Hernán Cendra, in recognition of his

contributions and influence.

Deadline: 30 April 2026.

Books

Geometry of Mechanics.

The book explores the geometric foundations of classical mechanics, focusing on symplectic, cosymplectic, and Riemannian structures in Lagrangian and Hamiltonian formalisms. It also presents advanced frameworks like the unified Lagrangian–Hamiltonian approach, geometric Hamilton–Jacobi theory, and contact geometry for non-conservative systems, with exercises linking theory

and applications.

Geometric Mechanics. Part III: Broken Symmetry and Composition of Maps.

The book offers 31 lecture-style chapters that progress from finite-dimensional dynamical systems to manifolds, Lie groups, and modern PDE applications in continuum mechanics. With examples and nearly 200 exercises, it serves as a valuable resource for advanced students and researchers.

Preprints

Network's members

Janusz Grabowski and Asier López-Gordón: *A Darboux classification of homogeneous Pfaffian forms on graded manifolds.*

2602.04671

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

Xavier Gràcia, Àngel Martínez-Muñoz and Xavier Rivas: *Pairs of differential forms: a framework for precontact geometry.*

2602.04882

[math.DG, math-ph]

Xuting Gao, Guillem Pascual, Scott Brown and Sonia Martínez: *Banach Control Barrier Functions for Large-Scale Swarm Control.*

2602.05011

[math.OC, eess.SY]

Leonardo Colombo: *Quantum Riemannian Cubics with Obstacle Avoidance for Quantum Geometric Model Predictive Control.*

2602.08881

[math-ph, eess.SY, math.OC, quant-ph]

Luis Crespo and Álvaro Pelayo: *p -adic symplectic geometry of integrable systems and Weierstrass-Williamson theory II.*

2602.09898

[math.SG, math.NT]

Giannis Delimpaltadakis, Pol Mestres, Jorge Cortés and W. P. M. H. Heemels: *Safe Feedback Optimization through Control Barrier Functions.*

2602.09928

[math.OC, eess.SY]

Xu Shang, Masih Haseli, Jorge Cortés and Yang Zheng: *On the Existence of Koopman Linear Embeddings for Controlled Nonlinear Systems.*

2602.14537

[math.OC, eess.SY]

Fei Chen, Jorge Cortés and Sonia Martínez: *Enhancing network resilience through topological switching.*

2602.19420

[math.OC, eess.SY]

Razvan Gabriel Iagar, Ariel Sánchez and Erik Sarrion-Pedralva: *Global self-similar solutions for Hardy-Hénon equations with linear and quasilinear diffusion.*

2602.20699

[math.AP, math.DS]

Omayra Yago Nieto and Leonardo Colombo: *Learning-Based Geometric Leader-Follower Control for Cooperative Rigid-Payload Transport with Aerial Manipulators.*

2602.21768

[eess.SY, math.OC]

Leonardo Colombo, Thomas Beckers and Juan Giribet: *Aggressiveness-Aware Learning-based Control of Quadrotor UAVs with Safety Guarantees.*

2602.21936

[eess.SY, math.OC]

Network's collaborators

Fabrizio Pugliese, Giovanni Sparano and Luca Vitagliano: *The Symplectic-to-Contact Dictionary.*

2601.22775

[math.DG, math.SG]

Mauro Garavello, Xiaoqian Gong and Benedetto Piccoli: *Properties of Measure Controls and Their Trajectories.*

2602.00752

[math.OC]

Alejandro Cabrera and Matias del Hoyo: *Geometric differentiation of simplicial manifolds.*

2602.09885 (version 2)

[math.DG, math.AT, math.CT]

Helge Gloeckner and Karl-Hermann Neeb: *Infinite-Dimensional Lie Groups.*

2602.12362

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

Bernhard Albach, Jean-François Barraud, Misha Bialy, Johanna Bimmermann, Ana Chávez Cáliz, Mihai Damian, Lina Deschamps, Umberto Hryniewicz, Vincent Humilière, Boris Khesin, Levin Maier, Agustin Moreno, Alexandru Oancea, Olga Paris-Romaskevich, Alfonso Sorrentino and Serge Tabachnikov: *Open problems in billiards and quantitative symplectic geometry.*

2602.12896

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

Yu Kawano, Simone Betteti, Alexander Davydov and Francesco Bullo: *Incremental Input-to-State Stability and Equilibrium Tracking for Stochastic Contracting Dynamics*.

2602.18382

[eess.SY, math.OC]

Leonardo F. Toso, Davit Shadunts, Yunyang Lu, Nihal Sharma, Donglin Zhan, Nam H. Nguyen and James Anderson: *Learning Invariant Visual Representations for Planning with Joint-Embedding Predictive World Models*.

2602.18639

[cs.LG, math.OC]

Alexey V. Bolsinov, Andrey Yu. Konyaev and Vladimir S. Matveev: *Existence of Riemannian invariants for integrable systems of hydrodynamic type*.

2602.18687

[nlin.SI, math-ph, math.AP, math.DG]

Isaac A. García, Jaume Giné and Víctor Mañosa: *Monodromic singularities of Brunella-Miari vector fields with two edges in the Newton diagram*.

2602.20864

[math.DS]

Thematic partner groups

GEOMETRY, DYNAMICS AND FIELD THEORY NETWORK

Mathematical physics group - Universidad de Burgos (Burgos, Spain)

Geometry group - Universität Würzburg (Würzburg, Germany)

Geometric mechanics group - Universidad Nacional del Sur (Bahía Blanca, Argentina)

Geometry group - Università degli Studi di Salerno (Salerno, Italy)

Geometry and mathematical physics group - Loughborough University (Loughborough, United Kingdom)

Q-Math group - Universidad Carlos III (Madrid, Spain)

Geometry, dynamics, and learning team - Nanyang Technological University (Singapore, Singapore)

Control and geometry team - Inria Paris Center (Paris, France)

Geometrical mathematical physics research group (Madrid, Spain)

Réseau de recherche en physique mathématique (Dijon – Lyon – Metz, France)

Research Group on Mathematical Physics - Universidad de Valladolid (Valladolid, Spain)

Links of interest

Newsletters

International Mathematical Union (IMU) Newsletter - January 2026

Instituto de Ciencias Matemáticas (ICMAT) Newsletter - January 2026

International Association of Mathematical Physics Bulletin - January 2026

IEEE Open Journal of Control Systems Newsletter - 2025

Entities

European Mathematical Society

Royal Spanish Mathematical Society (RSME)

International Association of Mathematical Physics

International Centre for Theoretical Physics (ICTP)

Association for Women in Mathematics (AWM)

European Research Council

European Commission Funding & Tenders Portal

International Center of Pure and Applied Mathematics (CIMPA)

European Commission - Research and Innovation

Mathematical and physical sciences funding, National Science Foundation, USA

Journals

Geometric Mechanics

Issue on topological and variational methods in nonlinear problems American Institute of Mathematical Sciences (AIMS)

Computational Mechanics

IEEE Open Journal of Control Systems

Open Access Physics Journals

Open Access Mathematics Journals

Open Access American Institute of Mathematical Sciences (AIMS) Journal

Societat Catalana de Matemàtiques (SCM) journal on Mathematics

Prizes and awards

IACM Computational Mechanics Award

Association for Women in Mathematics Awards

IACM O.C. Zienkiewicz Award

IEEE Control Systems Society Awards

IACM Congress Medal (Gauss-Newton Medal)

Royal Society of London Premier Medals and Awards

IACM John Argyris Award for Young Scientists

London Mathematical Society Prizes

IACM Fellows Award

SIAM Activity Groups award various prizes

The Shaw Prize

International Mathematical Union Awards and Prizes

The Henri Poincarè Prize

Other Prizes of International Mathematical Union

The British Royal Society Grants

American Mathematical Society Prizes and Awards

The British Royal Society's medals and award

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