



GEOMETRY, DYNAMICS
AND FIELD THEORY NETWORK

April 2026

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Contents

Network's activities	1
Outstanding workshop	1
Other scientific events	1
Online course	6
Virtual seminars	6
Opportunities	6
Ph.D. offers	6
Postdoctoral fellowships . .	7
Offers for researchers	8
Research visit offers	8
Financial support	9
News and publications	10
Journals	10
Books	10
Preprints	10
Network's members	10
Network's collaborators . .	11
Thematic partner groups	11
Links of interest	12
Newsletters	12
Entities	12
Journals	12
Prizes and awards	12

Geometry, Dynamics and Field Theory Network Infosheet

Network's activities

XVIII International ICMAT Summer School on Geometry, Dynamics and Field Theory.
22–26 June 2026, Madrid, Spain.

Outstanding workshop

2nd Conference OAK (Observables - Actions - Quantisation).
22–25 June 2026, Metz, France.

2nd International Workshop on Geometric Field Theory.
6–8 July 2026, Warsaw, Poland.

New Advances in Contact and Hamiltonian Dynamics.
13–17 July 2026, Madrid, Spain.

XXXIV International Fall Workshop on Geometry and Physics.
1–4 September 2026, Tarragona, Spain.

Other scientific events

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.

Mathematical Analysis and Dynamical Systems.

20–21 May 2026, Tashkent, Uzbekistan.

Operator theory and mathematical physics.

24–29 May 2026, Prague, Czech Republic.

International Conference on Complex and Differential Geometry.

25–29 May 2026, Trieste, Italy.

5th International Conference on Dynamics of Differential Equations.

25–29 May 2026, Madrid, Spain.

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.

V Argentine Meeting on Geometric Mechanics and Mathematical Physics.

26–29 May 2026, Bahía Blanca, Argentina.

Physics and Mathematics of hydrodynamic and wave turbulence.

26–30 May 2026, Luminy, France.

Recent developments in mathematical physics and related fields.

27–29 May 2026, Hagen, Germany.

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.

Deformation problems in and around Poisson geometry.

1–5 June 2026, Leuven, Belgium.

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.

Quantum geometry and physics.

15–18 June 2026, Vercelli, Italy.

Relativistic Thermodynamics: From Mathematical and Conceptual Foundations to Applications.

15–17 June 2026, Newcastle, United Kingdom.

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.
- Particle systems and PDEs.**
15–19 June 2026, Toulouse, France.
- Symplectic Topology, Hamiltonian Dynamics, and Persistence Structures.**
15–19 June 2026, Zürich, Switzerland.
- Geometry and Dynamics of Discrete Actions.**
15–20 June 2026, Cuernavaca, Mexico.
- Higher structures in Pavia.**
17–19 June 2026, Pavia, Italy.
- 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.
- Field theory and higher geometric structures.**
22 June–2 July 2026, Leuven, Belgium.
- European School of Differential Geometry.**
22 June–3 July 2026, L’Aquila, Italy.
- Analysis of Partial Differential Equations.**
22 June–3 July 2026, Okinawa, Japan.
- Walkshop on Mathematical Physics.**
25–26 June 2026, Kassel, Germany.
- Effective Approximation and Dynamics of Many-Body Quantum System.**
29 June–3 July 2026, Bremen, Germany.
- 2nd MaPhyAG Workshop on Algebraic Geometry and Mathematical Physics.**
29 June–3 July 2026, Madrid, Spain.
- Complexity, information, and tractable simulations of quantum many-body dynamics.**
1–2 July 2026, New York, USA.
- International Conference on Differential Equations and Dynamical Systems.**
3–8 July 2026, Suzdal, Russia.
- 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.**
5–11 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.**
12–18 July 2026, Będlewo, Poland.
- Analysis of Partial Differential Equations arising in Physics.**
13–15 July 2026, New Jersey, USA.
- 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.

New Perspectives on Evolution Equations and Related Topics.

13–17 July 2026, London, United Kingdom.

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.

Noncommutative Geometry and Higher Structures.

20–24 July 2026, Coimbra, Portugal.

Rutgers Gauge Theory, Low-Dimensional Topology, and Geometric Analysis Conference.

23–30 July 2026, Philadelphia, USA.

Quantum Algorithms for Differential Equations.

27–31 July 2026, Toronto, Canada.

School on Open Quantum Systems: theory and experiment.

27 July–7 August 2026, São Paulo, Brazil.

Geometric Flows and Related Topics.

2–7 August 2026, Banff, Canada.

Geometric Methods in Scientific Machine Learning.

2–7 August 2026, Oberwolfach, Germany.

Partial Differential Equations for Many Particles Systems.

3–7 August 2026, Providence, USA.

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.

Thermality in Quantum Field Theory in Curved Spacetimes.

3–7 August 2026, São Paulo, Brazil.

Second Colombian Geometry and Topology Meeting.

3–14 August 2026, Cali, Colombia.

Novel Developments in Spectral Theory and the Dynamics of Quantum Systems with Applications.

9–14 August 2026, Oberwolfach, Germany.

Stable and unstable Dynamics in PDEs and Hamiltonian Systems.

9–14 August 2026, Oaxaca, Mexico.

Poisson 2026: Conference.

10–14 August 2026, Leuven, Belgium.

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.

Symmetries, Invariants and Singularities in Algebraic Geometry with a view towards Latin America.

16–21 August 2026, Oaxaca, Mexico.

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.
- Geometry and Integrability.**
23–27 August 2026, Będlewo, Poland.
- Moduli Spaces, Quantization and Poisson Geometry.**
23–28 August 2026, Les Diablerets, Switzerland.
- Geometry and Integrability.**
24–27 August 2026, Będlewo, Poland.
- Loop Models, Conformal Field Theory, and Geometry.**
24–28 August 2026, Luminy, France.
- Algebra and Geometry meets Quantum Fields and Strings.**
24 August–11 September 2026, Hamburg, Germany.
- Physics and mathematics of turbulence in different media.**
24 August–9 October 2026, New York, USA.
- Advances in Nonlinear Partial Differential Equations in Biology.**
28–30 August 2026, Banff, Canada.
- Calculus of Variations.**
30 August–4 September 2026, Oberwolfach, Germany.
- Modave Summer School in Mathematical Physics.**
30 August–4 September 2026, Modave, Belgium.
- 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.
- Emerging Trends in Applied Mathematics and Mechanics.**
1–2 September 2026 2026, Lodz, Poland.
- Conformally Symplectic Dynamics and Geometry.**
1 September 2026–30 April 2027, New Jersey, USA.
- Modern Problems of Mathematics and Mechanics.**
9–12 September 2026, Baku, Azerbaijan.
- Higher Structures in Quantum Field Theory.**
13–18 September 2026, Hangzhou, China.
- Quantum Field Theory, Many Particle Systems and Effective Models.**
13–18 September 2026, Oberwolfach, Germany.
- Classical and Quantum Mechanical Models of Many-Particle Systems.**
20–25 September 2026, Oberwolfach, Germany.
- Quantum topology, character varieties and low-dimensional geometry.**
23 September–18 December 2026, Los Angeles, USA.
- Contemporary Trends in Hamiltonian Geometry.**
27 September– 2 October 2026, Les Diablerets, Switzerland.
- IAS Frontiers Conference on Geometry, Dynamics, and Learning.**
28–29 September 2026, Singapore, Singapore.
- Mirror Symmetry, Calabi-Yau Threefolds, and Connections to Physics.**
28 September– 2 October 2026, Providence, USA.
- Integrable Systems and Quantum Theory.**
1–8 October 2026, Moscow and Saint-Petersburg, Russia.
- Hyperbolic Structures and Quantum Invariants.**
12–15 October 2026, Los Angeles, USA.
- Perspective Directions in Quantum Field Theory and Superstrings.**
12–17 October 2026, Moscow, Russia.
- 1st International Online Conference on Symmetry.**
20–22 October 2026, Basel, Switzerland.
- Contact Geometry, Cluster Algebras and Skein Theory.**
26–29 October 2026, Los Angeles, USA.
- KAM theory and PDEs.**
26–30 October 2026, Luminy, France.

Online course

Gaussian Processes for Learning, Modeling, and Control of Mechanical Systems.

6, 7, 11 and 14 May 2026, Verona, Italy.

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.

Algebraic Geometry and Mathematical Physics Geometry.

Universidad Complutense de Madrid.

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 in Topics in Fractal Geometry.

Loughborough University, England, UK

Closing date: 1 May 2026.

Predocctoral position in geometry.

TU Wien, Vienna, Austria

Closing date: 14 May 2026.

PhD Position in Quantum Mathematics.

University of Southern Denmark

Closing date: 15 May 2026.

PhD Program in Mathematical Sciences.

University of Padova, Italy

Closing date: 20 May 2026.

PhD Program in Mathematics, Computer Science, and Geosciences.

University of Trieste, Italy

Closing date: 25 May 2026.

Self-funded PhD opportunities in Mathematics.

Loughborough University, England, UK

Closing date: 31 July 2026.

PhD in Mirror symmetry for fibrations and degenerations of Calabi-Yau manifolds.

Loughborough University, England, UK

Closing date: 31 July 2026.

PhD position in Geometry.

University of Fribourg, Fribourg, Switzerland

Closing date: Applications will be reviewed on a rolling basis, starting in mid-April and continuing until the position is filled.

Postdoctoral fellowships

Postdoctoral Position in Mathematics.

Instituto de Matemáticas, Universidad Nacional Autónoma de México, Mexico City, Mexico

Closing date: 11 May 2026.

Temporary research positions for young mathematicians.

Institute of Mathematics of the Polish Academy of Sciences (IMPAN), Warsaw and other cities in Poland

Closing date: 16 May 2026.

Postdoctoral Researcher in Quantum Information and Computation.

University of Oxford, England, UK

Closing date: 18 May 2026, 12:00.

Beatriu de Pinós Program.

Catalonia, Spain

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

Postdoctoral Researcher in Geometry.

University of Luxembourg, Luxembourg

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

Postdoctoral Researcher in Geometry and Dynamics.

University of Luxembourg, Luxembourg

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

Postdoc positions.

Max Planck Institute for Mathematics, Bonn, Germany

Closing date: 31 May 2026.

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.

Postdoct in Geometric Partial Differential Equations.

Okinawa Institute of Science and Technology, Japan

Closing date: 1 July 2026.

Postdoc on geometric partial differential equations and general relativity.

Pennsylvania State University, University Park, USA

Closing date: Not specified. The position will begin on Autumn 2026.

Postdoc positions in solid and fluid mechanics and computational geometry.

School of Mathematical Sciences, University of Science and Technology of China, Hefei, China

Closing date: 16 April 2027.

Postdoctoral Researcher Recruitment.

POSTECH Department of Mathematics, Pohang-Si, South Korea

Closing date: Reviewed on a rolling basis.

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

Offers for researchers

Senior Scientist.

University of Graz, Austria

Closing date: 12 May 2026.

Associate/Full Professor in Applied Mathematics/Statistics.

University of Nottingham Ningbo China, China

Closing date: 14 May 2026.

Assistant / Associate Professor in Applied Mathematics / Statistics.

University of Nottingham Ningbo China, China

Closing date: 15 May 2026.

Two positions as Associate Senior Lecturer/Assistant Professor in Computational Science.

Lund University, Lund, Sweden

Closing date: 25 May 2026.

Open Rank Faculty Position (Tenure/Teaching/ Research Stream).

The Chinese University of Hong Kong, Shenzhen, China

Closing date: 1 June 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.

Research visit offers

Abel Visiting Scholar Program.

International Mathematical Union.

Postdoctoral mathematician to visit a research collaborator for a month.

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

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.

School of Mathematical Sciences, University of Science and Technology of China, Hefei, China

Closing date: 16 April 2027.

Assistant, associate and full professor positions.

Yau Mathematical Sciences Center, Tsinghua University, Beijing, China

Closing date: 7 May 2027.

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.

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.

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.

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.

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.

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

William Clark, Leonardo Colombo and Anthony Bloch: *Dissipation-assisted stabilization of periodic orbits via actuated exterior impacts in hybrid mechanical systems with symmetry.*

2604.00254

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

Viyom Vivek, David Martín de Diego and Ravi N. Banavar: *Geometric Integrators for Nonholonomic Systems on Lie Groups.*

2604.04962

[math.NA, math.DG, math.SG]

Thomas Beckers and Leonardo Colombo: *Data-Driven Boundary Control of Distributed Port-Hamiltonian Systems.*

2604.04266

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

Miguel Ángel Berbel and Marco Castrillón López: *Lie-Poisson reduction in principal bundles by a subgroup of the structure group.*

2604.08288

[math.DG, math-ph]

Riccardo Brumali, Guido Carnevale, Sonia Martínez and Giuseppe Notarstefano: *A Distributed Bilevel Framework for the Macroscopic Optimization of Multi-Agent Systems.*

2604.11712

[math.OC]

William Retnaraj, Simone Betteti, Alexander Davydov, Francesco Bullo and Jorge Cortés: *Timescale Limits of Linear-Threshold Networks.*

2604.16710

[eess.SY, math.DS, q-bio.NC]

Anthony Bloch, Sebastián J. Ferraro, David Martín de Diego and Shreyas Bharadwaj: *Discrete variational calculus for double-bracket dissipation.*

2604.26049

[math.NA, math.DG]

Steven Nguyen, Nicholas Orndorff, Jorge Cortés and Boris Kramer: *Reachability-Based Design Optimization for Aircraft Maneuverability.*

2604.26134

[math.OC]

Network's collaborators

Philippe Bonneau, Veronique Chloup-Arnould, Angela Gammella and Tilmann Wurzbacher: *Actions of Lie 2-algebras and comomentum maps.*

2602.14715

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

Anand Gokhale, Anton V. Proskurnikov, Yu Kawano and Francesco Bullo: *Contracting Neural Networks: Sharp LMI Conditions with Applications to Integral Control and Deep Learning.*

2604.00119

[eess.SY, math.OC]

Shreyas Bharadwaj, Bamdev Mishra, Cyrus Mostajeran, Alberto Padoan, Jeremy Coulson and Ravi Banavar: *Min-Max Grassmannian Optimization for Online Subspace Tracking.*

2604.00825

[eess.SY, math.OC]

Alexey V. Bolsinov, Andrey Yu. Konyaev and Vladimir S. Matveev: *Duality of operator Frobenius algebras and solution of Eisenhart-Stäckel problem in the non-diagonal case.*

2604.03195

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

Arthur N. Montanari, Francesco Bullo, Dmitry Krotov and Adilson E. Motter: *Energy-Based Dynamical Models for Neurocomputation, Learning, and Optimization.*

2604.05042

[cs.LG, cond-mat.dis-nn, eess.SY, math.DS, q-bio.NC]

Alejandro Cabrera and Gabriel Gonzalo Ledesma Valenotti: *Associative half-densities on symplectic groupoids and quantization.*

2604.08201

[math.SG, math-ph]

Giulia Dileo, Deniz Poyraz and Bayram Şahin: *Transversely Kähler almost contact metric Lie algebras.*

2604.12538

[math.DG]

Anand Gokhale, Anton V. Proskurnikov, Yu Kawano and Francesco Bullo: *A Nonlinear Separation Principle via Contraction Theory: Applications to Neural Networks, Control, and Learning.*

2604.15238 (version 2)

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

Yi Lin: *A Transverse Averaging Operator and Cohomology of Quotients by Non-closed Subgroups.*

2604.17619

[math.DG, math.SG]

François Gay-Balmaz and Cheng Yang: *Variational Principles for Shock Dynamics in Compressible Euler Flows.*

2604.20635

[math-ph, math.AP, math.DS]

Gabriel Rondón, Paulo R. da Silva and Jaume Llibre: *Limit cycles in piecewise smooth systems with circular switching manifold.*

2604.26061

[math.DS, math.CA, math.CV]

Dan Aguero, Alessandro Arsie, Pedro Frejlich and Igor Mencattini: *Concurring reduction schemes for Dirac structures.*

2604.26196

[math.SG]

Matías I. Caruso, Javier Fernández, Cora Tori and Marcela Zuccalli: *Lagrangian reduction of symmetric discrete mechanical systems: a survey.*

2604.26648

[math.DG]

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 - March 2026

International Association of Mathematical Physics Bulletin - April 2026

Instituto de Ciencias Matemáticas (ICMAT) Newsletter - March 2026

IEEE Open Journal of Control Systems Newsletter - 2025

Entities

European Mathematical Society

European Research Council

Royal Spanish Mathematical Society (RSME)

European Commission Funding & Tenders Portal

International Association of Mathematical Physics

European Commission - Research and Innovation

International Centre for Theoretical Physics (ICTP)

International Center of Pure and Applied Mathematics (CIMPA)

Association for Women in Mathematics (AWM)

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

IACM John Argyris Award for Young Scientists

IACM O.C. Zienkiewicz Award

IACM Fellows Award

IACM Congress Medal (Gauss-Newton Medal)

SIAM Activity Groups award various prizes

International Mathematical Union Awards and Prizes

Other Prizes of International Mathematical Union

American Mathematical Society Prizes and 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

The British Royal Society Grants

The British Royal Society's medals and award

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