



GEOMETRY, DYNAMICS
AND FIELD THEORY NETWORK

September 2026

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Geometry, Dynamics and Field Theory Network Infosheet

Scientific events

Integrable Systems and Quantum Theory.

1–8 October 2026, Moscow and Saint-Petersburg, Russia.

New Horizons in Mathematical Physics.

5–9 October 2026, Moscow, Russia.

Geometric Representation Theory and 3d Mirror Symmetry .

5–9 October 2026, Berkeley, USA.

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.

Interactions between quantum and homotopical geometry.

12 October–18 December 2026, New York, USA.

Stochastic and Relaxation Effects in Fluid Dynamics.

18–23 October 2026, Oberwolfach, Germany.

VII Workshop on Fluids and PDE.

19–23 October 2026, Recife, Brazil.

Fluid equations: old and new.

19–23 October 2026, Warszawa, Poland.

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.

Large Scale Dynamics: Quantum, Classical & Stochastic.

26–29 October 2026, Munich, Germany.

KAM theory and PDEs.

26–30 October 2026, Luminy, France.

Spectral theory applied to physics.

28–30 October 2026, Luminy, France.

Chinese-Russian Conference on Differential and Difference Equations.

1–5 November 2026, Shanghai, China.

Advanced Mathematical Modelling for Nonlinear and Nonsmooth Mechanics.

9–13 November 2026, Luminy, France.

Mathematics of Physics-Oriented Machine Learning.

15–20 November 2026, Oberwolfach, Germany.

Pseudo-Hermitian Hamiltonians and Quantum Physics.

15–21 November 2026, Erice, Italy.

Numerics for Evolutionary PDEs: from Nonlinear Parametrizations to Time Integration.

22–27 November 2026, Oberwolfach, Germany.

Structural and Geometry Features of PDE & Systems.

23–27 November 2026, Będlewo, Poland.

Magnetic Hamiltonians and Their Spectra.

23–27 November 2026, Canberra, Australia.

RCD: Nonlinear Dynamics, Mechanics and Robotics.

23–27 November 2026, Izhevsk, Russia.

International Conference on Differential Geometry, Mathematical Physics, General Relativity and Computing.

26–28 November 2026, Kolkata, India.

Modern Problems of Mathematics, Informatics, and Mechanics.

27–28 November 2026, Dushanbe, Tajikistan.

Dynamics in Geometric Dispersive Equations and the effects of Trapping, Scattering and weak Turbulence, III.

29 November–4 December 2026, Banff, Canada.

PDEs and Applications in Biology.

29 November–5 December 2026, Oberwolfach, Germany.

Dynamic Chaos.

30 November–4 December 2026, Moscow, Russia.

Differential Equations and Calculus of Variations.

1–3 December 2026, Moscow, Russia.

Nonlocal Boundary Value Problems and Related Problems in Mathematical Biology, Informatics, and Physics.

1–5 December 2026, Nalchik, Russia.

The 15th International Conference on Computational Mechanics.

4–6 December 2026, Sanya, China.

Mathematics of Unresolved Processes in Atmosphere–Ocean Dynamics.

6–11 December 2026, Oberwolfach, Germany.

Summer School on Elliptic PDEs and Related Problems.

14–18 December 2026, Santiago, Chile.

Dynamical Renormalization and MLC.

4 January–5 March 2027, New York, USA.

Winter School in Mathematical Physics.

10–15 January 2027, Les Diablerets, Switzerland.

Differential Equations in Mathematical Biology: Analysis, Stochasticity, and Modelling.

18–22 January 2027, Bonn, Germany.

Advances and Challenges in Computational Partial Differential Equations.

11–15 January 2027, Providence, USA.

Wave-Kinetic Interfaces: Dispersive Dynamics Meets Kinetic Theory.

17–22 January 2027, Oberwolfach, Germany.

Geometric Methods in Data Science.

24–29 January 2027, Oberwolfach, Germany.

Cobordisms, Quantum Fields, and Quantum Gravity.

31 January–5 February 2027, Banff, Canada.

Universal Geometric and Algebraic Structures in Quantum and Gravitational Physics.

31 January–5 February 2027, Les Diablerets, Switzerland.

Lagrangian Torus Fibrations.

7–12 February 2027, Oberwolfach, Germany.

Half a century of Dynamical Renormalization.

8–12 February 2027, New York, USA.

Mathematical Challenges in Quantum Mechanics.

8–12 February 2027, Milan, Italy.

Workshop in Mathematical Physics.

14–19 February 2027, Les Diablerets, Switzerland.

Complex Geometry and Lie Groups.

15–19 February 2027, Como, Italy.

2nd Workshop on spectral geometry, PDEs and mathematical physics.

17–19 February 2027, Hagen, Germany.

School Local and Nonlocal Minimal Surfaces and Geometric Flows.

22–26 February 2027, Milano, Italy.

Workshop Local and Nonlocal Minimal Sur-**faces and Geometric Flows.**

1–5 March 2027, Milano, Italy.

Explicit Class Field Theory.

14–19 March 2027, Oberwolfach, Germany.

Computational Fluids Conference.

12–15 March 2027, Yokohama, Japan.

60th Spring Topology and Dynamics Conference.

18–20 March 2027, Ohio, USA.

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.

Journal Club and Seminars Series in Field Theory.

International Centre for Theoretical Physics.

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 Probability and Stochastic Geometry.

Institute for Mathematical Stochastics, University of Goettingen, Germany

Closing date: 12 October 2026.

PhD student position in Nonsmooth Variational Problems and Operator Equations.

Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany

Closing date: To be filled at the earliest possible date.

PhD positions within Mathematics and Stochastics.

Department of Mathematics, Aarhus University, Denmark

Closing date: 1 November 2026, 23:59 CEST.

PhD in Renormalisation in dynamical systems.

University of Portsmouth, England, UK

Closing date: Applications accepted all year round.

PhD in Geometric Aspects of Complex Differential Equations.

University of Portsmouth, England, UK

Closing date: Applications accepted all year round.

Several PhD opportunities.

School of Mathematics, University of Birmingham, England, UK

Closing date: Applications accepted all year round.

PhD position in Geometric Deep Learning.

Heidelberg Institute for Theoretical Studies, Germany

Closing date: Applications will be reviewed on a rolling basis.

PhD in Theoretical Quantum Physics.

University of Luxembourg, Luxembourg

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

PhD candidates in geometric analysis.

Mathematical Sciences Institute, Australian National University, Australia

Closing date: 19 December 2026.

Postdoctoral fellowships

Postdoctoral positions in Mathematics and Stochastics.

Department of Mathematics, Aarhus University, Denmark

Closing date: 5 October 2026, 23:59 CEST.

Postdoc position.

12 October 2026

Closing date: Queen's University Belfast, Northern Ireland, UK.

Postdoc in Probability and Stochastic Geometry.

Institute for Mathematical Stochastics, University of Goettingen, Germany

Closing date: 12 October 2026.

Chapman Fellow in Mathematics (Pure Mathematics Section).

29 October 2026

Closing date: Imperial College London, England, UK.

HITS Independent Postdoc Program.

Heidelberg Institute for Theoretical Studies, Heidelberg, Baden-Wuerttemberg, Germany

Closing date: 1 November 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.

Postdoctoral Positions.

School of Mathematical Sciences, Zhejiang University, China

Closing date: 16 December 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.

Departmental Postdocs.

Department of Mathematics, National University of Singapore

Closing date: None. Positions beginning in August 2027.

Postdoctoral Researcher Recruitment.

POSTECH Department of Mathematics, Pohang-Si, South Korea

Closing date: Reviewed on a rolling basis.

Postdoctoral Position 2026.

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

Closing date: none.

Postdoctoral Position 2026.

Institute of Geometry and Physics, University of

Science and Technology of China, Hefei, China

Closing date: none.

Humboldt Research Fellowship for Postdoctoral Researchers.

Alexander von Humboldt Foundation

Closing date: Open.

Offers for researchers

Lecturer in Mathematics.

University College Cork, Cork, Ireland

Closing date: 20 October 2026, 12:00 IST.

Assistant Professor in Mathematics.

University of Gothenburg, Sweden

Closing date: 30 October 2026.

Tenure-track Faculty positions in Applied Mathematics and Computational Modeling.

School of Science and Technology, IE University, Madrid and Segovia, Spain

Closing date: 1 November 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.

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.

Assistant Professor 2026.

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

Closing date: none.

Full/Associate Professor 2026.

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

Closing date: none.

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: 31 December, 30 April and 31 August.

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.

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..

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.

CIMPA schools 2028 (organisation).
Centre International de Mathématiques Pures et Appliquées (CIMPA), France.
Deadline: 4 October 2026.

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

Calls for papers

Special Issue of "Geometric Mechanics" commemorating the centenary of groupoids.
Guest Editors: Manuel de León, Alberto Ibort and

Víctor Jiménez.
Deadline: January 31, 2027.

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.

Preprints

Network's members

Francisco J. Herranz and Danilo Latini: *The Dunkl two-photon/Schrödinger algebras and their applications.*

2608.31104

[math-ph]

Alberto Enciso and Daniel Peralta-Salas: *The finiteness conjecture for equilibria of electric fields generated by point charges of one sign.*

2609.03965

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

Prasad Vilas Chanekar, Bala Kameshwar Poolla and Jorge Cortés: *Gramian-Informed Framework for Edge Flow Network Analysis Against Nodal Attacks.*

2609.06897

[math.OC]

Omayra Yago Nieto and Leonardo Colombo: *Feasibility and Singularity in High-Order Safety-Critical Control for Quadrotor UAVs.*

2609.19362

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

Manuel de León and Xuefeng Zhao: *Higher-order and non-geometric symmetries and Noether's theorem in k -cosymplectic Hamiltonian field theory.*

2609.23034

[math-ph, math.SG]

Alberto Ibort, María Jiménez-Vázquez and Juan M. Pérez-Pardo: *Theory for groupoid equivariant neural networks: an approach for steerable CNNs on bounded domains.*

2609.25987

[cs.LG, math.DG]

Network's collaborators

David Martínez Torres: *The topology of tridiagonal isospectral sets.*

2609.05733

[math.DG, math.AT]

Ruihao Hu and Melvin Leok: *Rough variational principles and applications to adjoint systems.*

2609.06337

[math.NA, math.OC]

Alejandro Bravo-Doddoli, Huaidian Hou, William

Clark and Anthony M. Bloch: *The Integrability of a knife-edge Billiard in a Disk.*

2609.12963

[math.DS, math-ph]

Jaume Llibre and Wojciech Szumiński: *Zero-Hopf bifurcation, periodic orbits and C^1 non-integrability of the classical Rössler system.*

2609.17336

[math.DS]

Wojciech Szumiński and Jaume Llibre: *Dynamics, periodic orbits and C^1 non-integrability of the ABC flow.*

2609.17449

[nlin.CD, math.DS]

N. Aizawa, Ichi Fujii, Ren Ito and L. Vasconcelos: *An integrable $\mathbb{Z}_2^2$ -graded extension of Camassa-Holm equation and its bi-Hamiltonian structure.*

2609.19543

[nlin.SI, math-ph]

Wojciech Szumiński and Jaume Llibre: *Trigonometric Nosé-Hoover oscillator: chaos, periodic orbits and integrability.*

2609.19958

[nlin.CD, math.DS]

Vladimir A. Orlov, Liubov A. Markovich, Andrey V. Mikheyenkov and Vladimir I. Man'ko: *Spin-Boson Mappings in the Formalism of f -Deformations.*

2609.22502 (version 2)

[quant-ph, cond-mat.other, math-ph]

Maria Teresa Chiri, Christopher Denaro, Xiaoqian Gong and Benedetto Piccoli: *Optimal Control of*

Traveler Testing in Epidemic Models.

2609.25372

[math.OC]

Richard Montgomery and Guowei Yu: *Approach to total collision in the spatial 4-body problem.*

2609.32088

[math.DS]

Li Guo, Joon-Hwi Kim, Jung-Wook Kim, Sungsoo Kim, Sangmin Lee and Jian-Rong Li: *A Hopf Algebraic Theory of the Quantum Magnusian.*

2609.33587

[math.CO, hep-th, math-ph, math.QA]

Santiago Castañeda-Montoya, Guillermo Lobos and Carlos Olmos: *Submanifolds of higher rank with curvature normals of constant length.*

2609.35007

[math.DG]

Leonardo F. Toso, James Anderson, Rafael Pinot and Nirupam Gupta: *Byzantine-Robust Federated Representation Learning.*

2609.36660

[cs.LG, math.OC]

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 - July 2026

Instituto de Ciencias Matemáticas (IC-
MAT) Newsletter - Number 40

European Mathematical Society (EMS)

Magazine - September 2026

International Association of Mathematical
Physics Bulletin - April 2026

IEEE Open Journal of Control Systems
Newsletter - 2026

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 Inno-
vation

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 (AIMS)

Computational Mechanics

IEEE Open Journal of Control Systems

Open Access Physics Journals

Open Access Mathematics Journals

Societat Catalana de Matemàtiques (SCM)
journal on Mathematics

Open Access Journal (AIMS)

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 Sci-
entists

London Mathematical Society Prizes

IACM Fellows Award

The Shaw Prize

SIAM Activity Groups award various prizes

The Henri Poincaré Prize

International Mathematical Union Awards
and Prizes

The British Royal Society Grants

Other Prizes of International Mathematical
Union

The British Royal Society's medals and
award

American Mathematical Society Prizes and
Awards

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