



GEOMETRY, DYNAMICS
AND FIELD THEORY NETWORK

May 2025

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Geometry, Dynamics and Field Theory Network Infosheet

Network's activities

XVII International ICMAT Summer School on Geometry, Dynamics and Field theory.
23–27 June 2025, Miraflores de la Sierra, Spain.

Outstanding workshop

XXXIII International Fall Workshop on Geometry and Physics.
9–12 September 2025, Córdoba, Spain.

Other scientific events

Structure Preserving Schemes for Complex Nonlinear Systems.
1–6 June 2025, Hangzhou, China.

Summer School on Dynamics and Geometry in Dimension 1, 2 and 3.
2–6 June 2025, Luminy, France.

Conference on Quantum Topology and Hyperbolic Geometry.
2–6 June 2025, Phu Quoc, Vietnam.

Beyond Uniform Hyperbolicity I: Higher rank actions, random walks and holomorphic dynamics.
2–6 June 2025, Trieste, Italy.

LG&TBQ2: Geometry, Topology, and Dynamics.
2–6 June 2025, Montreal, Canada.

Distributed Computing and Cyber-Physical Systems.
2–6 June 2025, Opatija, Croatia.

Geometry, topology and mathematical physics.
2–6 June 2025, Moscow, Russia.

XXVth International Conference Geometry, Integrability and Quantization.

5–12 June 2025, Varna, Bulgaria.

Great Lakes Mathematical Physics Meeting.

6–8 June 2025, Lexington, USA.

Physical Mathematics of Quantum Field Theory.

9–13 June 2025, Amherst, USA.

Summer school on Quantum Topology and Hyperbolic Geometry.

9–13 June 2025, Hanoi, Vietnam.

Workshop on Optimization, Dynamics and Convex Analysis.

11–14 June 2025, Aveiro, Portugal.

School - Topological Symmetries and Defects in Quantum Field Theory.

15–20 June 2025, Les Diablerets, Switzerland.

The Yang-Baxter equation and all that.

15–21 June 2025, Będlewo, Poland.

School: Topological Symmetries and Defects in Quantum Field Theory.

15–27 June 2025, Les Diablerets, Switzerland.

Control Theory and Mathematical Modeling.

16–20 June 2025, Izhevsk, Russia.

Perfectly matched perspectives on statistical mechanics, combinatorics and geometry.

16–20 June 2025, Luminy, France.

Symplectic Dynamics and Topology.

16–20 June 2025, Cosenza, Italy.

Workshop on Model Theory, Algebraic Dynamics, and Differential-Algebraic Geometry.

16–20 June 2025, Toronto, Canada.

Noncommutative Geometry and Higher Structures.

16–20 June 2025, Genova, Italy.

International Workshop on Lie Theory and Its Applications in Physics.

16–22 June 2025, Varna, Bulgaria.

Research School in Geometry.

16–27 June 2025, Cuernavaca, Mexico.

Anomalies, Topology and Quantum Information in Field Theory and Condensed Matter Physics.

16–27 June 2025, São Paulo, Brazil.

Optimal Transport, Heat Flow and Synthetic Ricci Bounds.

17–21 June 2025, Pisa, Italy.

5th IFAC Workshop on Control of Systems Governed by Partial Differential Equations.

18–20 June 2025, Beijing, China.

Walkshop in Mathematical Physics.

19–20 June 2025, Bremen, Germany.

Workshop: Topological Symmetries and Defects in Quantum Field Theory.

22–27 June 2025, Les Diablerets, Switzerland.

Blooming Beasts: A Conference on the Geometry, Topology, and Dynamics of Infinite-Type Surfaces.

22–27 June 2025, Oaxaca, Mexico.

Effective theories in classical and quantum particle systems.

23–27 June 2025, Trieste, Italy.

Sub-Riemannian geometry, spectral asymptotics and noncommutative geometry.

23–27 June 2025, Lund, Sweden.

Connections with Diffeomorphism Groups.

23–27 June 2025, Austin, USA.

Workshop: Integrable QFT: conformal bootstrap, bosonization, near-critical perturbations, and Coulomb gas.

23–27 June 2025, Bonn, Germany.

Barcelona Summer School on Floer Theory.

25–27 June 2025, Barcelona, Spain.

The William Rowan Hamilton Geometry and Topology Workshop.

30 June–4 July 2025, Dublin, Ireland.

Differential Geometry L'Aquila 2025.

30 June–4 July 2025, L'Aquila, Italy.

Interactions of Poisson Geometry, Lie Theory and Symmetry.

30 June–4 July 2025, Lisbon, Portugal.

Quantum Field Theory and Topological Phases via Homotopy Theory and Operator Algebras.

30 June–11 July 2025, Bonn, Germany.

Noncommutative Algebraic Geometry.

30 June–11 July 2025, Antwerp, Belgium.

International Symposium on Differential Geometry and Applications (Online).

3–4 July 2025, Munzur, Turkey.

Dynamische Systeme.

6–11 July 2025, Oberwolfach, Germany.

Workshop on New Pathways in Exploration of Quantum Field Theory and Quantum Gravity beyond Supersymmetry IV.

7–11 July 2025, Trieste, Italy.

Complex Geometry, Complex Analysis and Dynamics.

7–11 July 2025, Luminy, France.

Partial Differential Equations of Classical Physics.

7–25 July 2025, New York, USA.

Journées Messines en Méthodes Géométriques pour la Physique Mathématique.

8–10 July 2025, Metz, France.

Women in Groups, Geometry, and Dynamics III.

13–18 July 2025, Banff, Canada.

Geometry and Dynamics in Higher Rank Lie Groups.

14–25 July 2025, Berkeley, USA.

16th Viennese Conference on Optimal Control and Dynamic Games.

15–18 July 2025, Wien, Austria.

IFAC Joint Symposia on Mechatronics & Robotics.

15–18 July 2025, Paris, France.

10th International Conference on Automation, Control and Robotics Engineering.

16–19 July 2025, Wuxi, China.

Summer School of Mathematical Physics.

16 July–16 August 2025, Hradec Králové, Czech Republic.

Partial Differential Equations.

20–25 July 2025, Oberwolfach, Germany.

Recent Developments in Logarithmic Conformal Field Theory.

20–25 July 2025, Banff, Canada.

Advanced Methods of Modern Theoretical Physics: Integrable and Stochastic Systems.

20–25 July 2025, Dubna, Russia.

Formalizing Class Field Theory.

21–25 July 2025, Oxford, United Kingdom.

Non-equilibrium statistical physics: mathematical and physical advances.

21–25 July 2025, Firenze, Italy.

Topological and Geometric Structures in Low Dimensions.

21 July–1 August 2025, Berkeley, USA.

13th IFAC Symposium on Nonlinear Control Systems.

23–25 July 2025, Reykjavik, Iceland.

SIAM Conference on Control and Its Applications.

28–30 July 2025, Montréal, Canada.

Workshop on Spectral Geometry, PDEs and Mathematical Physics.

28–30 July 2025, Hagen, Germany.

Workshop: Gauge theories and spin systems: Yang-Mills theory, continuous symmetry, and disorder.

28 July–1 August 2025, Bonn, Germany.

Recent Advances in PDE and Mathematical Physics.

3–8 August 2025, Oaxaca, Mexico.

Around Singularities in Poisson Geometry.

3–8 August 2025, Hangzhou, China.

Finite Dimensional Integrable Systems in Geometry and Mathematical Physics.

4–8 August 2025, Guanajuato, Mexico.

Holomorphic-topological field theories and representation theory.

11–15 August 2025, Toronto, Canada.

Structures and Processes: Dynamical, Geometric, and Random.

18–22 August 2025, Toronto, Canada.

School on Quantum Dynamics of Matter, Light and Information.

18 August–5 September 2025, Trieste, Italy.

Holomorphic Dynamics.

24–29 August 2025, Oaxaca, Mexico.

Intersections of Topological Recursion, Conformal Field Theory, and Random Geometry.

24–29 August 2025, Les Diablerets, Switzerland.

Orbit equivalence and topological and measurable dynamics.

25–29 August 2025, Luminy, France.

Geometry and Convergence in Mathematical General Relativity.

25 August–3 October 2025, New York, USA.

Quantum control of rotational dynamics.

1–3 September 2025, Paris, France.

Mathematical Results in Quantum Theory.

1–5 September 2025, Munich, Germany.

Modern Problems of Mathematics and Mechanics.

3–6 September 2025, Baku, Azerbaijan.

7th International Applied Mathematics, Modelling and Simulation Conference.

5–7 September 2025, Athens, Greece.

Equivariant Topological Quantum Field Theory.

7–12 September 2025, Oaxaca, Mexico.

Differential Geometry and its Applications.

8–12 September 2025, Brno, Czechia.

Quantum Many-Body Dynamics: Thermalization and its Violations.

8–19 September 2025, São Paulo, Brazil.

QFT at the crossroads between mathematics and physics.

15–17 September 2025, Rome, Italy.

Geometric Measure Theory on Metric Spaces with Applications to Physics and Geometry.

15–19 September 2025, New York, USA.

3rd IMA Conference on Mathematics of Robotics.

24–26 September 2025, Manchester, United Kingdom.

Analysis of Many-body Quantum Systems.

5–10 October 2025, Oberwolfach, Germany.

Integrable systems and quantum theory.

6–11 October 2025, Saint Petersburg, Russia.

3D mirror symmetry and equivariant Lagrangian correspondence.

12–19 October 2025, Banff, Canada.

Phase Transitions and Turbulence including Fluids.

19–24 October 2025, Oberwolfach, Germany.

End of CRISIS: a mathematical school and conference on fluid dynamics.

27–31 October 2025, Luminy, France.

Holomorphic-topological field theories and representation theory.

3–7 November 2025, Toronto, Canada.

XVIII Meeting on Recent Advances in Physics of Fluids and its Applications.

5–7 November 2025, Bariloche, Argentina.

Symplectic structures and trisections.

17–21 November 2025, Luminy, France.

Operator Algebraic Quantum Groups.

30 November–30 December 2025, Banff, Canada.

Online courses

Introduction to Numerical Methods for Partial Differential Equations.

23–26 June 2025, Calicut, India.

Numerical Simulation and Analysis of Elliptic and Parabolic PDEs using Differential Quadrature Methods and FEMs.

21–24 July 2025, Roorkee, India.

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.

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 Programme Earth Science, Fluid-dynamics and Mathematics. Interactions and Methods.

Università degli Studi di Trieste, Italy

Closing date: 6 June 2025, 13:00 CEST.

PhD positions.

University of Milan, Italy

Closing date: 13 June 2025.

PhD scholarship in the project “Graded differential geometry with applications”.

Institute of Mathematics of the Polish Academy of Sciences, Warsaw, Poland

Closing date: 15 June 2025.

PhD positions.

University of Florence, Italy

Closing date: 16 June 2025, 12:00 CEST.

PhD positions.

University of Turin, Italy

Closing date: 16 June 2025, 12:00 CEST.

PhD positions.

University of Bergamo, Italy

Closing date: 16 June 2025, 23:59 CEST.

PRELUDIUM 24.

National Science Centre, Poland

Closing date: 17 June 2025, 16:00 CEST.

PhD Program in Mathematics.

Sapienza University of Rome, Italy

Closing date: 19 June 2025.

PhD Program in Mathematics.

University of Udine, Italy

Closing date: 20 June 2025, 14:00 CEST.

PhD on Mathematical Optimization in Quantum Information.

University of Gdańsk, Poland

Closing date: 30 June 2025.

PhD scholarship in Applied Mathematics - DTU Compute.

Technical University of Denmark, Kgs. Lyngby, Denmark

Closing date: 1 August 2025.

PhD position in Numerical simulation of coupled Seismo-Hydro-Mechanical processes in seismicity induced by subsurface fluid injection.

University Cote d'Azur, Nice, France

Closing date: 30 August 2025.

4 PhD positions in Mathematics.

University of Luxembourg, Luxembourg

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

Several PhD opportunities.

University of Birmingham, England, UK

Closing date: Applications accepted all year round.

Postdoctoral fellowships

Research Positions at the Center for Complex Geometry.

IBS Center for Complex Geometry, Daejeon, South Korea

Closing date: 2 June 2025.

Fixed-term Tenure Track Researcher Positions.

University of Pisa, Italy

Closing date: 9 June 2025, 13:00 CEST.

Part-time Stipendiary Lectureship in Pure Mathematics.

St Anne's College, University of Oxford, UK

Closing date: 20 June 2025, 13:00 CEST.

Postdoctoral position in Quantum Information Theory.

Centre Inria de Saclay, Palaiseau, France

Closing date: 30 June 2025.

Postdoctoral Researcher in Mathematical Physics and Geometry.

Centre for Mathematics, Technical University of Munich, Germany

Closing date: 30 June 2025.

Postdoc on Mathematical Optimization in Quantum Information.

University of Gdańsk, Poland

Closing date: 30 June 2025.

Postdoctoral positions in all areas of mathematics.

Mathematical Sciences Center, Tsinghua University, Beijing, China

Closing date: 30 June 2025.

Faculty and Postdoctoral Fellow Positions in Mathematics.

School of Sciences, Great Bay University, China

Closing date: 1 December 2025.

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 Researcher in Geometry and/or Analysis.

Universidad Nacional Autónoma de México, Cuernavaca, Morelos, Mexico

Closing date: 25 June 2025.

University Professor of Applied Mathematics with Focus on Differential Geometry and its Applications.

University of Innsbruck, Austria

Closing date: 1 July 2025.

Tenure-track (or tenured) faculty positions.

School of Mathematics and Statistics, Xi'an Jiaotong University, Shaanxi, China

Closing date: 31 July 2025.

Assistant Professor (tenure track) or Associate Professor in Geometry and Algebraic Geometry.

University of Luxembourg, Luxembourg

Closing date: 31 August 2025.

Assistant/Associate/Full Professor, Mathematics.

Yale University, Connecticut, USA

Closing date: 31 August 2025.

Faculty Positions.

Department of Mathematics, Bilkent University, Ankara, Turkey

Closing date: 15 October 2025.

Professor/Associate Professor/Assistant Professor positions.

Department of Mathematics, The Chinese University of Hong Kong, Hong Kong

Closing date: 22 October 2025.

Faculty and Postdoctoral Fellow Positions in Mathematics.

School of Sciences, Great Bay University, China

Closing date: 1 December 2025.

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

Visiting Scholars or Consultants to Institutes in Developing Countries.

International Centre of Theoretical Physics (ICTP).

To expert advice to enhance existing activities or to initiate a new research programme.

Closing date: 31 May.

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.

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

IMU Volunteer Lecturer Program.

Financial assistance to universities in developing countries to host a 3-4-week intensive course.

Deadline: 1 September.

CIMPA Schools in Partnership.

Asian and European schools in mathematics (AESIM).

Deadline: 30 September 2025.

Trimester Programs.

Hausdorff Research Institute for Mathematics, Bonn, Germany.

Deadline: 30 September 2025.

ICTP Grants for Visiting Scholars or Consultants.

Assistance to institutes or research groups in a developing country requiring expert advice to enhance existing activities or to initiate a new research programme.

Deadline: 30 September.

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.

2027 CIMPA Schools Call for Projects.

For organizing research schools in developing countries.

Deadline: 12 October 2025.

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: 15 December 2025.

Preprints

Network's members

Ángel Ballesteros, Romina Ramírez and Marta Reboiro: *Non-standard quantum algebras and infinite-dimensional PT-symmetric systems.*

2504.21833

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

Zuxun Xiong, Zhenyi Yuan, Keyan Miao, Han Wang, Jorge Cortés and Antonis Papachristodoulou: *Data-Enabled Predictive Control for Nonlinear Systems Based on a Koopman Bilinear Realization.*

2505.03346

[math.OC]

J. de Lucas, X. Rivas, S. Vilarino and B. M. Zawora: *Marsden–Meyer–Weinstein reduction for k -contact field theories.*

2505.05462

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

María Barbero-Liñán, Juan Manuel López Medel and David Martín de Diego: *Discretization of Dirac systems and port-Hamiltonian systems: the role of the constraint algorithm.*

2505.06024

[math.NA, cs.NA, math.DG]

Luis Crespo and Álvaro Pelayo: *Rigidity and flexibility in p -adic symplectic geometry.*

2505.07663

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

Søren Dyhr, Ángel González-Prieto, Eva Miranda and Daniel Peralta-Salas: *Cosymplectic Chern–Hamilton conjecture.*

2505.10379

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

Kehan Long, Jorge Cortés and Nikolay Atanasov: *Certifying Stability of Reinforcement Learning Policies using Generalized Lyapunov Functions.*

2505.10947 (version 2)

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

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

2505.12103

[math.NA, cs.NA, math.DG]

Manuel de León, Rubén Izquierdo-López and Xavier Rivas: *Brackets in multicontact geometry and multisymplectization.*

2505.13224

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

Rutwig Campoamor-Stursberg, Francisco J. Heranz and Javier de Lucas: *Nonlinear Lie-Hamilton systems: t -Dependent curved oscillators and Kepler-Coulomb Hamiltonians.*

2505.13853

[math-ph, math.DS, math.MP, nlin.SI]

Maunel Calixto, Alberto Mayorgas and Julio Guerrero: *Lieb-Mattis ordering theorem of electronic energy levels in the thermodynamic limit.*

2505.17081

[cond-mat.str-el, cond-mat.mes-hall, math-ph, math.MP, quant-ph]

Damola Ajeyemi, Yiting Chen, Antonin Colot,

Jorge Cortés and Emiliano Dall’Anese: *Learning to Pursue AC Optimal Power Flow Solutions with Feasibility Guarantees.*

2505.22399

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

Network’s collaborators

Vladimir Dragovic, Borislav Gajic and Bozidar Jovanovic: *Integrability of homogeneous exact magnetic flows on spheres.*

2504.20515

[math.DG, nlin.SI]

Jonathan de la Cruz-Hernández and David J. Fernández C.: *Confluent supersymmetric algorithm for bilayer graphene.*

2504.21109

[quant-ph, cond-mat.mes-hall, hep-th, math-ph, math.MP]

Manuel Fernández-Guasti, Toshiaki Fujiwara, Ernesto Pérez-Chavela and Shuqiang Zhu: *N-body choreographies on a p-limacon curve.*

2504.21713

[math.DS]

Leonardo F. Toso, Lintao Ye and James Anderson: *Learning Stabilizing Policies via an Unstable Subspace Representation.*

2505.01348

[cs.LG, math.OC]

Won Sang Chung, Georg Junker, Luis M. Nieto and Hassan Hassanabadi: *A new time-dependent quantum theory based on Tsallis’ distribution.*

2505.05419

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

Alexander Felski, Andreas Fring and Bethan Turner: *Lie symmetries and ghost-free representations of the Pais-Uhlenbeck model.*

2505.07869

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

Katarzyna Grabowska, Janusz Grabowski and Mikołaj Rotkiewicz: *Equivalence functors in graded supergeometry.*

2505.06366

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

Manuel Asorey, Fernando Falceto and Giuseppe Marmo: *Interaction anomalies and one-particle dynamics in very special relativity theories.*

2505.08329

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

Zohreh Ravanpak and Cornelia Vizman: *Metric degeneracies and gradient flows on symplectic leaves.*

2505.08948

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

Ziyad AlSharawi and Jose S. Cánovas: *Increasing delay as a strategy to prove stability.*

2505.11372

[math.DS]

Jaume Llibre and Gabriel Rondón: *The dynamics of the Ehrhard-Müller system with invariant algebraic surfaces.*

2505.12047

[math.DS]

Paul Glendinning, Siyuan Ma and James Montaldi: *Piecewise linear circle maps and conjugation to rigid rational rotations.*

2505.13689

[math.DS]

Liat Kessler and Nikolas Wardenski: *On isomorphisms of semi-free Hamiltonian S^1 -manifolds and fixed point data.*

2505.14000

[math.SG]

Gregorio Falqui and Eleonora Sforza: *Hamiltonian reductions, scalings, and effective wave models in stratified fluids.*

2505.15225

[math-ph, math.MP]

Yiting Chen, Francesco Bullo and Emiliano Dall’Anese: *Sampled-data Systems: Stability, Contractivity and Single-iteration Suboptimal MPC.*

2505.18336

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

Jaume Llibre, Yilei Tang, Jiang Yu and Pengyu Zhou: *Global Dynamics Of Quadratic And Cubic Planar Quasi-homogeneous Differential Systems.*

2505.21871

[math.DS, math.CA]

Franco Flandoli, Matteo Palmieri and Milo Viviani: *Aggregation of vortex structures in 2D: the blob-wave system and its role in zonal flows.*

2505.22700
[math-ph, math.MP, physics.flu-dyn]

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)

Links of interest

Newsletters

International Mathematical Union (IMU) Newsletter - March 2025

Instituto de Ciencias Matemáticas (IC-

MAT) Newsletter - April 2025

International Association of Mathematical Physics Bulletin - January 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

European Commission - Research and Innovation

International Center of Pure and Applied Mathematics (CIMPA)

Mathematical and physical sciences funding, National Science Foundation, USA

Journals

Geometric Mechanics

Open Access Mathematics Journals

Open Access American Institute of Mathematical Sciences (AIMS) Journal

Prizes and awards

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