GD FT NET

GEOMETRY, DYNAMICS AND FIELD THEORY NETWORK

February 2025

Editors: Viviana Díaz, Asier López-Gordón, Rodrigo Sato

Contents

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.

Scientific events

Geometric Analysis.
3–7 March 2025, Geilo, Norway.

Evolving Design and Discrete Differential Geometry: towards Mathematics Aided Geometric Design.
10–13 March 2025, Kyushu, Japan.

Workshop on Differencial Geometry.
10–14 March 2025, Maceio, Brazil.

Non-commutative Optimal Transport.
10 March–13 June 2025, Los Angeles, USA.

Conformal Field Theory, Integrability, and Geometry.
11–15 March 2025, New York, USA.

Geometric Mechanics Formulations for Continuum Mechanics.
16–21 March 2025, Banff, Canada.

Supersymmetric Quantum Field Theories, Vertex Operator Algebras, and Geometry.
17 March–18 April 2025, New York, USA.

Kinetic Theory and Fluid Mechanics: couplings, scalings and asymptotics.
24–28 March 2025, Luminy, France.

16th European Turbomachinery Conference: fluid dynamics and thermodynamics.
24–28 March 2025, Hannover, Germnay.

Representation Theory, Symplectic Geometry, and Cluster Algebras.
30 March–4 April 2025, Banff, Canada.

New directions in G2 geometry.
31 March–4 April 2025, Pasadena, USA.

Symplectic Singularities, Supersymmetric QFT, and Geometric Representation Theory.
31 March–4 April 2025, New York, USA.

Hyperbolic & Dispersive Equations on Curved Geometries: Connections to Physics and General Relativity.
7–11 April 2025, New York, USA.

Applications of NonCommutative Geometry to Gauge Theories, Field Theories, and Quantum Space-Time.
7–11 April 2025, Luminy, France.

Geometry of Materials.
7–11 April 2025, Providence, USA.

15th International Conference on Applied Physics and Mathematics.
10–12 April 2025, Tokio, Japan.

Interactions of Geometric and Quantum Topology focused on Links in Thickened Surfaces.
13–18 April 2025, Banff, Canada.

Integro-differential Equations in Many-particle Interacting Systems.
14–18 April 2025, California, USA.

Geometric Structures and Discrete Group Actions.
14–18 April 2025, Luminy, France.

Higher rank geometric structures.
14 April–11 July 2025, Paris, France.

11th International Conference on Control, Automation and Robotics.
18–20 April 2025, Kyoto, Japan.

Fluid Solid Interactions and Related Problems.
21–25 April 2025, Luminy, France.

Geometry at Large.

21–25 April 2025, Madrid, Spain.

3rd International Conference on Intelligent Control and Computing.
25–27 April 2025, Changchun, China.

Dynamics of Density Operators.
28 April–2 May 2025, Los Angeles, USA.

Dispersive Integrable Equations: Pathfinders in Infinite-Dimensional Hamiltonian Systems.
28 April–2 May 2025, Luminy, France.

Gauge Theory and Floer Homology in Low Dimensional Topology.
28 April–2 May 2025, New York, USA.

Minicourse on Partial Differential Equations: Analytical and Numerical Tools.
1 May–30 June 2025, São Paulo, Brazil.

Advanced School on Mapping Class Groups, Surface Subgroups, Bundles, and Group Extensions.
5–9 May 2025, Madrid, Spain.

Trimester Program: Probabilistic methods in quantum field theory.
5 May–15 August 2025, Bonn, Germany.

Workshop for Research and Workforce Development in Fluid Mechanics.
9 May–11 May 2025, Lincoln, USA.

SIAM Conference on Applications of Dynamical Systems.
11–15 May 2025, Denver, USA.

Effective theories for many-body systems out of equilibrium.
11–16 May 2025, Les Diablerets, Switzerland.

Mathematical Advances in Geophysical Fluid Dynamics.
11–16 May 2025, Oberwolfach, Germany.

Nonlinear Dispersive Equations: Advances and Perspectives.
12–16 May 2025, Luminy, France.

Differential games, control theory and optimization.
19–21 May 2025, Chelyabinsk, Rusia.

Basics of Nonequilibrium Statistical Mechanics.
19–23 May 2025, Leuven, Belgium.

The International Conference on Riemannian Geometry and Applications.
23–25 May 2025, Bucharest, Romania.

Modern topics in quantum many-body physics, from chaos to integrability.
25–30 May 2025, Les Diablerets, Switzerland.

Physics and Mathematics of Hydrodynamic and Wave Turbulence.
26–30 May 2025, Luminy, France.

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.

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

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

Great Lakes Mathematical Physics Meeting.
6–8 June 2025, Lexington, USA.

Physical Mathematics of Quantum Field Theory.
9–13 June 2025, Amherst, USA.

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.

Workshop and 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, Rusia.

Workshop on Model Theory, Algebraic Dynamics, and Differential-Algebraic Geometry.
16–20 June 2025, Toronto, Canada.

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.

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.

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.

The William Rowan Hamilton Geometry and Topology Workshop.
30 June–4 July 2025, Dublin, Ireland.

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.

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.

Partial Differential Equations of Classical Physics.
7–25 July 2025, New York, USA.

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.

Partial Differential Equations.
20–25 July 2025, Oberwolfach, Germany.

Recent Developments in Logarithmic Conformal Field Theory.
20–25 July 2025, Banff, Canada.

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.

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.

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.

Job offers, fellowships and supports

Ph.D. offers

PhD or Postdoc Position in Numerical Mathematics.
Technical University of Munich (TUM), Germany
Closing date: 10 March 2025.

PhD Studentship: Gravity Currents Driven by Ambient Flow.
Loughborough University, England, UK
Closing date: 23 March 2025.

Up to three PhD positions in interdisciplinary mathematics.
Uppsala University, Sweden
Closing date: 28 March 2025.

Up to two PhD students in Mathematics, Applied Mathematics, or Statistics.
Uppsala University, Sweden
Closing date: 31 March 2025.

PhD Position in Probability Theory and Geometry.
Delft University of Technology, Netherlands
Closing date: 6 April 2025.

PhD Studentship in the Mathematical Modelling of Infectious Disease Transmission and Control.
University of Sussex, England, UK
Closing date: 1 May 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.

Up to 8 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.

PhD Position in Differential Geometry.
UniDistance Suisse, Brig, Switzerland
Closing date: Applications are reviewed on a rolling basis.

Postdoctoral fellowships

Postdoctoral Research Fellow on the EPSRC Programme Grant: "Combinatorial Representation Theory: Discovering the Interfaces of Algebra with Geometry and Topology".

University of Leeds, England, UK
Closing date: 7 March 2025.

PhD or Postdoc Position in Numerical Mathematics.
Technical University of Munich (TUM), Germany

Closing date: 10 March 2025.

Profesor Ayudante Doctor.
Universidad de La Laguna, Tenerife, Spain
Closing date: 10 March 2025.

Two Post Doctoral Research Associates in Pure Mathematics.
University of Cambridge, England, UK
Closing date: 16 March 2025.

CRM-LAVAL Postdoctoral fellowship.
Centre de recherches mathématiques (CRM) and Université Laval, Quebec, Canada
Closing date: 16 March 2025.

SONATINA 9 Grant.
National Science Centre (NCN), Poland
Closing date: 17 March 2025 at 16:00 CET.

STARS Starting Grant.
University of Padua, Italy
Closing date: 21 March 2025 at 13:00 CET.

Postdoctoral position in applied mathematics and theoretical mechanics.
School of Mathematics, Jilin University, China; and Laboratory of Engineering Sciences for Environment, La Rochelle University, France
Closing date: 30 March 2025.

Post doctor (2 years) within geometric deep learning.

Umeå University, Sweden
Closing date: 7 April 2025.

Postdoctoral position in Quantum Information Theory.
Centre Inria de Saclay, Palaiseau, France
Closing date: 30 June 2025.

Post-doc offer in optimization.
CentraleSupelec, Paris-Saclay University, France
Closing date: Open. Applications will be processed on a rolling basis.

Humboldt Research Fellowship for Postdoctoral Researchers.
Alexander von Humboldt Foundation
Closing date: Open.

Two postdoctoral positions at the Topological, Computational, and Algebraic Aspects of Complex Systems Research Group.
Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria
Closing date: The selection process will begin on March 10, 2025, and applications will be reviewed on a rolling basis until 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.

Offers for researchers

20 senior research positions.
ICREA, Catalonia, Spain
Closing date: 4 March 2025 at 14:00 CET.

Two assistant professor positions in the Dept. of Mathematics.
University of Concepción, Chile
Closing date: 10 March 2025.

Two assistant professor positions in the Dept. of Mathematical Engineering.
University of Concepción, Chile
Closing date: 12 March 2025.

Senior Teaching Fellow.
Imperial College London, Department of Materials, London, UK
Closing date: 20 Mar 2025.

Open call for IM PAN professor/full professor positions.

Institute of Mathematics of the Polish Academy of Sciences, several cities in Poland
Closing date: 22 March 2025.

Lecturer Assistant Professor in Applied and Computational Mathematics (Permanent).
University College Dublin, Ireland
Closing date: 25 March 2025.

Professor of Mathematics – Algebra, Geometry, and Topology.
ETH Zurich, Switzerland
Closing date: 15 April 2025.

Open rank position in Mathematics/Applied Mathematics.
Ecole Supérieure d'Ingénieurs Léonard de Vinci (ESILV), Montpelier, France
Closing date: 30 March 2025.

Associate Professor in Geometry and Dynamics.

Côte d'Azur University, Nice, France

Closing date: 15 May 2025.

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.

Open Rank Tenure Track Faculty position - Mathematics.

Auburn University, Alabama, USA

Closing date: Review of applications will continue until the position is 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.

Offers for visiting researchers

Collaborative Grants and Research in Pairs.

The ICTP and the Istituto Nazionale di Alta Matematica INdAM.

Research projects in mathematics in collaboration between mathematicians from developing countries and INdAM members at ICTP in Trieste..

Closing date: 15 March.

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.

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.

Simons Visiting Professors at Mathematisches Forschunginstitut 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 Researh 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

ICTP Postgraduate Diploma Programme.

For talented students from developing countries. Trieste, Italy.

Deadline: 15 March.

Simons Foundation Dissertation Fellowship in Mathematics.
Research support to excellent graduate students in the final years of their Ph.D. studies.
Deadline: 31 March.

TWAS Research Grants Programme in Basic Sciences: Individuals.
For research projects in biology, chemistry, mathematics and physics in a S&T-lagging countries.
Deadline: 3 April.

TWAS Research Grants Programme in Basic Sciences: Groups.
For research projects in biology, chemistry, mathematics and physics in a S&T-lagging countries.
Deadline: 3 April.

TWAS Research Grants Programme for Interdisciplinary Research: Collaborative Grants.
To high-level scientists for a collaborative project jointly carried out by two Principal Investigators in the S&T-lagging countries.
Deadline: 3 April.

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: 31 May or 30 September.

IMU Volunteer Lecturer Program.
Financial assistance to universities in developing countries to host a 3-4-week intensive course.
Deadline: 1 September.

Trimester Programs.
Hausdorff Research Institute for Mathematics, Bonn, Germany.
Deadline: September 2025.

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 Forschunginstitut 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

Recent Mathematical and Theoretical Progress in Quantum Mechanics.
Special issue of "Frontiers in Physics" aims to promote research on open problems in quantum mechanics and foster idea exchange between related fields of theoretical and mathematical physics.
Deadline: 30 April 2025.

Journal 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

Societat Catalana de Matemàtiques Notícies.
Three articles in memory of our friend and network member, Miguel C. Muñoz Lecanda, can be found on pages 76–81.

Preprints

Network's members

Marco Castrillón López, Pedro M. Gadea and Eugenia Rosado Maria: *Lorentzian symmetric spaces which are Einstein-Yang-Mills with respect to invariant metric connections.*
2502.01246
[math.DG]

Rutwig Campoamor-Stursberg, Francisco J. Herranz, Danilo Latini, Ian Marquette and Alfonso Blasco: *Generalized quantum Zernike Hamiltonians: Polynomial Higgs-type algebras and algebraic derivation of the spectrum.*
2502.02491
[quant-ph, math-ph, math.MP, nlin.SI]

Efstratios Stratoglou, Alexandre Anahory Simões, Anthony Bloch and Leonardo Colombo: *Geometric Stabilization of Virtual Nonlinear Nonholonomic Constraints.*
2502.03902
[eess.SY, cs.SY, math.DS, math.OC]

Michael Konopik, Rodrigo T. Sato Martín de Almagro, Sofya Maslovskaya, Sina Ober-Blöbaum and Sigrid Leyendecker: *Variational integrators for a new Lagrangian approach to control affine systems with a quadratic Lagrange term.*
2502.04742 (version 2)
[math.OC]

Leonardo Colombo, Juan Giribet and David Martín de Diego: *Variational integrators for optimal control of foldable drones.*
2502.05692
[math.OC, cs.NA, cs.SY, eess.SY, math.NA]

María Barbero Liñán, Juan Carlos Marrero and David Martín de Diego: *Retraction maps: A seed of geometric integrators. Part II: Symmetry and reduction.*
2502.14152
[math.NA, cs.NA, math.SG]

Leonardo Colombo, Manuel de León, María Emma Eyrea Irazú and Asier López-Gordón: *Homogeneous bi-Hamiltonian structures and integrable contact systems.*
2502.17269
[math-ph, math.MP, math.SG]

Eva Miranda and Pablo Nicolás: *Which singular tangent bundles are isomorphic?.*
2502.18602
[math.DG]

Network's collaborators

Yacine Chitour, Frédéric Jean, Roberto Monti, Ludovic Rifford, Ludovic Sacchelli, Mario Sigalotti and Alessandro Socionovo: *Not all sub-Riemannian minimizing geodesics are smooth.*
2501.18920
[math.DG, math.MG]

M. Baradaran, D. Braak, L. M. Nieto and S. Zarrinkamar: *Exact Floquet solutions in a Parity-Time-Symmetric Rabi Model.*
2501.19163 (version 2)
[quant-ph, math-ph, math.MP]

Antonio Cerrato, Luis Rodríguez-Tembleque, José A. González and M. H. Ferri Aliabadi: *A coupled finite and boundary spectral element method for linear water-wave propagation problems.*
2502.00614
[math.NA, cs.NA, math-ph, math.MP]

Jaime Muñoz Masqué, Eugenia Rosado María and Ignacio Sánchez Rodríguez: *Lifting diffeomorphisms to vector bundles.*
2502.01245
[math.DG]

Andrzej J. Maciejewski, Maria Przybylska and Thierry Combot: *Non-integrability of the n-body problem.*
2502.01426
[math-ph, math.MP]

Bozidar Jovanovic: *Contact line bundles, foliations, and integrability.*
2502.02935
[math.SG, nlin.SI]

Camille Laurent, Ivonne Rivas and Lionel Rosier: *Exact controllability of anisotropic 1D partial differential equations in spaces of analytic functions.*
2502.03800
[math.AP, math.OC]

Dilei Lu, Chengming Bai and Li Guo: *A bialgebra theory of post-Lie algebras via Manin triples and generalized Hessian Lie groups.*
2502.04954
[math.QA, math.DG, math.RA]

Fabiano Brito, Jackeline Conrado, João Lucas and Giovanni Nunes: *Area-minimizing unit vector fields on some spherical annuli.*
2502.05955
[math.DG]

Fabiano Brito, Jackeline Conrado and Giovanni Nunes: *A correspondence between genus one minimal Lawson surfaces of $\mathbb{S}^3(2)$ and area-minimizing unit vector fields on the antipodally punctured unit 2-sphere.*
2502.09639
[math.DG]

Arjan van der Schaft: *Maximum Power Transfer for Nonlinear State Space Systems.*
2502.11077
[math.OC]

Karl-Hermann Neeb: *Open orbits in causal flag manifolds, modular flows and wedge regions.*
2502.11635
[math.DG, math-ph, math.MP]

E. Chuño Vizarreta, I. Mencattini and M. Pedroni: *Some remarks on Poisson quasi-Nijenhuis manifolds and Haantjes structures.*
2502.16559
[math.DG]

François Gay-Balmaz: *A Variational Principle for Extended Irreversible Thermodynamics: Heat Conducting Viscous Fluids.*
2502.17079
[math-ph, cond-mat.stat-mech, math.MP, physics.class-ph]

Links of interest

Geometry, Dynamics and Field Theory Network

Journal "Geometric Mechanics"

International Mathematical Union (IMU) Newsletter - January 2025

Instituto de Ciencias Matemáticas (IC-

MAT) Newsletter - January 2025

International Association of Mathematical Physics Bulletin - January 2025

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

Open Access Mathematics Journals

Open Access American Institute of Mathematical Sciences (AIMS) Journal

Open Access Physics Journals

Societat Catalana de Matemàtiques (SCM) journal on Mathematics

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 Poincarè 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