

May 2024

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Geometry, Dynamics and Field Theory Network Infosheet

Network's activities

The Geometry of Field Theories. 13–15 June 2024, Madrid, Spain.

XVI International ICMAT Summer School on Geometry, Dynamics and Field Theory. 20–25 June 2024, Madrid, Spain.

Outstanding event

Workshop on Geometric Control and Mechanics. 5–6 July 2024, Thessaloniki, Greece.

Applied Nonlinear Dynamical Systems and Chaos. 1–3 July 2024, Madrid, Spain.

XXXII International Fall Workshop on Geometry and Physics.

2–5 September 2024, Coimbra, Portugal.

Other conferences

Gravitational physics and its mathematical analysis. 2–7 June 2024, Les Diablerets, Switzerland.

Symmetry and Perturbation Theory. 2–8 June 2024, Sardinia, Italy.

Analysis and Numerics of Partial Differential Equations (CIMPA School).

2–15 June 2024, Cape Coast, Ghana.

International Conference on Physics and Symplectic Geometry (Digital).

3–4 June 2024, New York, United States.

International Conference on Nonlinear Quantum Dynamics (Digital). 3–4 June 2024, Tokyo, Japan.

Groups of dynamical origin. 3–7 June 2024, Pasadena, USA.

Mathematical aspects of the physics with nonself-adjoint operators. 3–7 June 2024, Marseille, France.

Kinetic and hydrodynamic descriptions in collective behavior. 3–7 June 2024, Warszawa, Poland.

Flows and variational methods in Riemannian and complex geometry: classical and modern methods.

3–14 June 2024, Toronto, Canada.

Geometry and Dynamics on surfaces. 3 June–2 August 2024, Luminy, France.

International Conference on Geometry, Integrability and Quantization. 6–13 June 2024, Varna, Bulgaria.

Great Lakes Mathematical Physics Meeting. 7–9 June 2024, Michigan, USA.

Geometric and Variational Analysis. 9–15 June 2024, Będlewo, Poland.

Gauge theories, supergravity and superstrings. 9–22 June 2024, Benasque, Spain.

Anti-Diffusion in Multiphase and Active Flows. 10–14 June 2024, Cambridge, United Kingdom.

The Los Angeles Workshop on Representations and Geometry. 10–14 June 2024, California, USA.

Harmonic analysis and partial differential equations.

 $10\mathchar`-14$ June 2024, Marseille, France.

Vertex algebras, geometric representation theory and quantum groups. 10–14 June 2024, Marseille, France.

Lie Groupoids, Lie Algebroids & Differentiable Stacks. 11–14 June 2024, Salerno, Italy.

Structural Dynamical Systems: Computational Aspects. 11–14 June 2024, Monopoli, Italy.

Third International Conference of Nonlinear Solid Mechanics. 11–14 June 2024, Sardinia, Italy.

International Conference on Advanced Quantum Mechanics (Digital). 13–14 June 2024, Montreal, Canada. Geometry and Symmetries of SCFTs. 17–21 June 2024, Mainz, Germany.

Microlocal Analysis and Quantum Dynamics. 17–21 June 2024, Evanston, USA.

International Conference on Modern Problems of Mathematics, Mechanics and their Applications. 20–22 June 2024, Baku, Azerbaijan.

Geometry, Topology, and Dynamics Thematic Day (Hybrid). 21 June 2024, Guanajuato, Mexico.

Computational Geometry. 23–28 June 2024, Banff, Canada.

Open Communications in Nonlinear Mathematical Physics. 23–29 June 2024, Bad Ems, Germany.

Canadian Symposium on Fluid Dynamics. 24–27 June 2024, Toronto, Canada.

Summer School on Effective Approximation and Dynamics of Many-Body Quantum Systems. 24, 27 June 2024, Metz, France

24–27 June 2024, Metz, France.

Research School: Frontiers in Interacting Particle Systems, Aggregation-Diffusion Equations & Collective Behavior. 24–28 June 2024, Marseille, France.

Current Trends in Geometric Flows. 24–29 June 2024, Montréal, Canada.

Birational geometry and dynamics. 30 June–5 July 2024, Les Diablerets, Switzerland.

Lie groups, geometry, integrability, hydrodynamics. 1–5 July 2024, Nordfjordeid, Norway.

Poisson 2024 School. 1–5 July 2024, Napoli, Italy.

Poisson 2024 Conference. 8–12 July 2024, Napoli, Italy.

XXI International Congress on Mathematical Physics. 1–6 July 2024, Strasbourg, France.

XI International Scientific Conference "Modern Problems of Mathematics and Mechanics". 3–6 July 2024, Baku, Azerbaijan.

Dg-manifolds in Geometry and Physics. 3–7 July 2024, Paris, France. **The 14th Asian Control Conference.** 5–8 July 2024, Da Lian Shi, China.

Alhambra PDE days. 8–12 July 2024, Granada, Spain.

Fourth Symposium on Machine Learning and Dynamical Systems. 8–12 July 2024, Toronto, Canada.

Poisson 2024 Conference. 8–12 July 2024, Napoli, Italy.

Geometric And Variational Analysis. 9–15 July 2024, Będlewo, Poland.

International Conference on Nonlinear Quantum Dynamics (Digital). 13–14 July 2024, Ottawa, Canada.

Integrable Techniques in Theoretical Physics. 14–19 July 2024, Bad Honnef, Germany.

International Conference on Nonlinear Quantum Dynamics (Digital). 15–16 July 2024, Bali, Indonesia.

International Conference on Nonlinear Quantum Dynamics (Digital). 15–16 July 2024, Stockholm, Sweden.

33rd/35th International Colloquium on Group Theoretical Methods in Physics. 15–19 July 2024, Cotonou, Benin.

Integrability, Dualities and Deformations. 15–19 July 2024, Swansea, United Kingdom.

Workshop on Hamiltonian Geometry and Quantization. 15–19 July 2024, Toronto, Canada.

Workshop on Probabilistic Field Theories. 17–19 July 2024, Aalto, Finland.

Mathematics of General Relativity and Fluids. 21 July–2 August 2024, Forth, Greece.

International Conference on Nonlinear Quantum Dynamics (Digital). 22–23 July 2024, Tokyo, Japan.

Bridging PDE and Geometric Flows. 22–26 July 2024, Wales, United Kingdom.

An introduction to dynamics on surfaces and random walks. 22–26 July 2024, Luminy, France.

Summer School Data-driven Dynamical Systems.

22–26 July 2024, Bremem, Germany.

School and Workshop on Dynamical Systems. 22 July–9 August 2024, Trieste, Italy.

International Conference on Control, Robotics and Informatics. 26–28 July 2024, Danang, Vietnam.

Polynomial Optimization for Nonlinear Dynamics: Theory, Algorithms, and Applications. 28 July–2 August 2024, Oberwolfach, Germany.

Summer School on Geometric Analysis and PDEs. 28 July–2 August 2024, Będlewo, Poland.

International Conference on Nonlinear Quantum Dynamics (Digital). 29–30 July 2024, Vienna, Austria.

XLIV Dynamics Days Europe. 29 July–2 August 2024, Bremen, Germany.

Geometry, dynamics and randomness. 29 July–2 August 2024, Luminy, France.

School Quantum Geometry (Mathematical Methods for Gravity, Gauge Theories and Non-Perturbative Physics). 29 July–23 August 2024, Les Houches, France.

Courses in Quantum Field Theory (ICTP-Online).

4 August–9 September 2024, Dhaka, Bangladesh.

Patterns in solutions to the incompressible Euler equations. 5–9 August 2024, Bedlewo, Poland.

VIASM Summer School in Mathematical Physics. 5–10 August 2024, Hue City, Vietnam.

Summer School in Mathematical Physics. 5–10 August 2024, Hue City, Vietnam.

Calculus of Variation. 11–16 August 2024, Oberwolfach, Germany.

Optimal Transport and Dynamics. 11–16 August 2024, Oaxaca, Mexico.

Utrecht Summer School in Geometry. 12–23 August 2024, Utrecht, Netherlands.

Mathematics, Statistics, and Geometry of Extreme Events in High Dimensions. 18–23 August 2024, Oberwolfach, Germany.

Rutgers Symplectic Summer School 2024. 19–23 August 2024, New Jersey, USA. **Special Geometric Structures and Analysis.** 19 August–20 December 2024, Berkeley, USA.

New Frontiers in Curvature: Flows, General Relativity, Minimal Submanifolds, and Symmetry.

19 August–20 December 2024, Berkeley, USA.

Rutgers Symplectic Summer School. 19–23 August 2024, Bremen, Germany.

Connections Workshop: New Frontiers in Curvature and Special Geometric Structures and Analysis. 21–23 August 2024, Berkeley, USA.

Variational methods in applications to PDEs. 26–30 August 2024, Będlewo, Poland.

10th International Conference on Quantum Information and Quantum Control. 26–30 August 2024, Toronto, Canada.

The 9th International Conference on Control and Optimization with Industrial Applications. 27–29 August 2024, Istanbul, Turkey.

Geometry and Physics of Mirror Symmetry. 2–6 September 2024, Sheffield, United Kingdom.

Conference on Recent Developments in Topological Quantum Field Theory. 2–7 September 2024, Beijing, China.

Introductory Workshop: Special Geometric Structures and Analysis.3–6 September 2024, Berkeley, USA.

Stochastics and Geometry. 8–13 September 2024, Banff, Canada.

Summer school on Inverse Problems in Mechanics.

 $9{-}14$ September 2024, Quiberon, France.

Quantization in Representation Theory, Derived Algebraic Geometry, and Gauge Theory. 15–20 September 2024, Les Diablerets, Switzerland.

Virtual seminars

Nonlocal Problems in Mathematical Physics, Analysis and Geometry. 15–20 September 2024, Hangzhou, China.

The Fundamentals Summer School in High-Energy and Gravitational Physics. 16–20 September 2024, Split, Croatia.

Non Commutative Geometry and Higher Structures. 17–21 September 2024, Thessaloniki, Greece.

Non-Hermitian topology, geometry and symmetry across physical platforms. 23–27 September 2024, New York, USA.

Workshop on Time Delay Systems. 24–27 September 2024, Udine, Italy.

Mathematical Billiards: at the Crossroads of Dynamics, Geometry, Analysis, and Mathematical Physics. 9 October–15 December 2024, New York, USA.

Poisson Geometry and Artin-Schelter Regular Algebras. 13–18 October 2024, Hangzhou, China.

Recent progress on geometric analysis and Riemannian geometry. 21–25 October 2024, Berkeley, USA.

2nd International Conference on Differential Geometry.

28–31 October 2024, Fez, Morocco.

Mathematics of fluids in motion: Recent results and trends. 11–15 November 2024, Luminy, France.

Geometry and analysis of special structures on

manifolds.

18–22 November 2024, Berkeley, USA.

Frontiers in Sub-Riemannian Geometry. 25–29 November 2024, Luminy, France.

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

Instituto de Ciencias Matemáticas' seminars on these topics.

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, Prince-ton/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 positions in Analysis and Geometry. University of Antwerp, Antwerp, Belgium Closing date: 3 June 2024.

PhD position in Noncommutative Symmetries. University of Amsterdam, Amsterdam, Netherlands Closing date: 7 June 2024.

PhD position in Complex Geometry and Optimal Transport. Umeå University, Umeå, Sweden Closing date: 9 June 2024.

PhD position in Geometric Deep Learning . Umeå University, Umeå, Sweden Closing date: 9 June 2024.

8 PhD positions in Mathematics.

Leibniz University Hannover and Humboldt University Berlin, Germany Closing date: 15 June 2024.

Postdoctoral fellowships

Postdoctoral position in Random Geometric Systems.

University of Bielefeld, Bielefeld, Germany Closing date: 6 June 2024.

Postdoctoral position in Hyperbolic Surfaces. University of Strasbourg, Strasbourg, France Closing date: 7 June 2024.

Posdoctoral position in Hyperbolic Geometry. University of Strasbourg, Strasbourg, France

PhD position in Integrable Systems.

Loughborough University, Loughborough, United Kingdom Closing date: 23 June 2024.

4 PhD position in Mean Field Control. University of Hamburg, Hamburg, Germany

Closing date: 28 June 2024.

PhD position in Control Theory and Epidemiology. University of Lille, Lille, France

Closing date: 30 June 2024.

PhD position in Geometric Deep Learning. Umeå University, Umeå, Sweden Closing date: 25 August 2024.

15 PhD positions in Tensor Modelling, Geometry and Optimisation.

Université Côte d'Azur , Antibes, France Closing date: 31 December 2024.

Closing date: 7 June 2024.

Postdoctoral position in Complex Geometry. Umeå University, Umeå, Sweden Closing date: 10 June 2024.

ISTA-Fellow Postdoctoral Program .

Institute of Science and Technology Austria, Klosterneuburg, Austria Closing date: 12 June 2024.

Postdoctoral positions in Noncommutative Fibrations.

Charles University, Prague, Czechia Closing date: 16 June 2024.

Postdoctoral position in Holomorphic Dynamics.

University of Florence, Florence, Italy Closing date: 20 June 2024.

Postdoctoral position in Computational Fluid Dynamics.

New Jersey Institute of Technology, Newark(NJ), USA Closing date: 30 June 2024.

Offers for researchers

3 Senior Researchern positions in Algebraic or Complex Geometry. Institute for Basic Science, Daejeon, Korea Closing date: 9 June 2024.

W3 Professorship in Numerical Mathematics. Free University of Berlin, Berlin, Germany Closing date: 13 June 2024.

Professorship in Artificial Intelligence.

University of Basel, Basel, Switzerland Closing date: 31 July 2024.

Tenured/Tenure track positions in Mathematics. Nagoya University, Nagoya, Japan

Closing date: 31 July 2024.

Professor in Mathematical Analysis.

Dublin Institute for Advanced Studies, Dublin, Ireland

Offers for visiting researchers

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: 30 September, 31 May.

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

Postdoctoral position in Control Theory and Epidemiology. INRIA University of Lille, Lille, France Closing date: 30 June 2024.

Postdoctoral position in Differential Geometry. University of São Paulo, São Paulo, Brazil Closing date: 30 June 2024.

Postdoctoral position in Geometric Methods. University of Würzburg, Würzburg, Germany Closing date: 31 July 2024.

Humboldt research fellowship for postdoctoral researchers. Alexander von Humboldt Foundation Closing date: Open.

Closing date: 15 August 2024.

Assistant Professor in Probability and Calculus of Variations. University of Cyprus, Nicosia, Cyprus Closing date: 25 August 2024.

Tenure-track position in Mathematics.

New York City College of Technology, New York, United States of America Closing date: 5 October 2024.

Tenured/Tenure-track in Differential Geometry. ShanghaiTech University, Shanghai, China

Closing date: 10 January 2025.

Associate Professor in Mathematics.

New York City College of Technology, New York, United States of America Closing date: Open Until Filled.

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 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.

Financial support

CIMPA Schools in Partnership.

Asian and European Schools in Mathematics. Deadline: 1 June 2024.

IMU Volunteer Lecturer Program.

Financial assistance to universities in developing countries to host a 3-4-week intensive course. Deadline: 1 June 2024, 1 September, 1 December 2024 and 1 March 2025.

UMALCA Call for Schools.

Virtual or in-person school of mathematics of Latin America and the Caribbean. Deadline: 30 June 2024.

CIMPA Fellowships.

Financial support for thematic program "Representation theory and noncommutative geometry at Institut Henri Poincaré". Deadline: 15 July 2024.

Summer Graduate Schools.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States. Deadline: 1 September every year.

Trimester Program. Hausdorff Research Institute, Bonn, Germany. Deadline: 30 September 2024.

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.

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.

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.

News and publications

Journals

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.

Section on "Geometric methods in mechanics

Preprints

Network's members

Alexandre Anahory Simões, Leonardo Colombo and Fátima Silva Leite: Comparison of two numerical methods for Riemannian cubic polynomials on Stiefel manifolds. 2404.19407 [math.OC, cs.NA, cs.SY, eess.SY, math.NA]

Lyudmila Grigoryeva, James Louw and Juan-Pablo Ortega: Forecasting causal dynamics with universal reservoirs. 2405.02536 [math.DS]

Network's collaborators

Katarzyna Grabowska, Janusz Grabowski, Marek Kuś and Giuseppe Marmo: Contactifications: a Lagrangian description of compact Hamiltonian systems. 2404.19560

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

Kaja Krhac, Bernhard Maschke and Arjan van der Schaft: Port-Hamiltonian systems with energy and power ports. 2405.01241

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

S. Fassari, M. Gadella, J. T. Lunardi, L. M. Nieto and F. Rinaldi: *The one-dimensional Coulomb Hamiltonian: Properties of its Birman-Schwinger operator.* 2405.08618

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

Joshua Pickard, Cooper Stansbury, Amit Surana, Anthony Bloch and Indika Rajapakse: *Biomarker Selection for Adaptive Systems*. 2405.09809 (version 2) focus areas. Deadline: No precise deadline.

and physics" on Mathematics and Mechanics of Complex Systems Journal.

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

Deadline: No precise deadline.

Manuel de León and Rubén Izquierdo-López: Coisotropic reduction in Multisymplectic Geometry. 2405.12898 [math.SG]

Kehan Long, Yinzhuang Yi, Zhirui Dai, Sylvia Herbert, Jorge Cortés and Nikolay Atanasov: Sensor-Based Distributionally Robust Control for Safe Robot Navigation in Dynamic Environments.
2405.18251
[cs.RO, cs.SY, eess.SY, math.OC]

[q-bio.MN, math.OC]

Hans Cruz-Prado, Octavio Castaños, Giuseppe Marmo and Francisco Nettel: GKLS Vector Field Dynamics for Gaussian States.
2405.10282
[quant-ph, math-ph, math.MP]

Tobias Diez and Tudor S. Ratiu: Norm-squared of the momentum map in infinite dimensions with applications to Kähler geometry and symplectic connections. 2405.13308

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

François Gay-Balmaz, Tudor S. Ratiu and Alice B.
Tumpach: The restricted Siegel disc as coadjoint orbit.
2405.13533
[math.SG, math.FA]

Klas Modin and Milo Viviani: *Two-dimensional fluids* via matrix hydrodynamics.

2405.14282 [math.AP, math-ph, math.DG, math.MP]

A. M. Escobar Ruiz, L. Jiménez-Lara and J. Llibre:

Links of interest

Two-center problem with harmonic-like interactions: periodic orbits and integrability. 2405.15048 [math-ph, math.MP]

Geometry, Dinamics and Field Theory Network	Open Access Physics Journals	
Journal "Geometric Mechanics"	Societat Catalana de Matemàtiques (SCM) journal on Mathematics	
International Mathematical Union (IMU) Newsletter - March 2024	SIAM Activity Groups award various prizes	
Instituto de Ciencias Matemáticas (ICMAT) Newsletter - April 2024	International Mathematical Union Awards and Prizes	
International Association of Mathematical Physics Bulletin - April 2024	Other Prizes of International Mathematical Union	
European Mathematical Society	American Mathematical Society Prizes and Awards	
Royal Spanish Mathematical Society (RSME)		
International Association of Mathematical Physics	Mathematical Association of America Awards	
International Centre for Theoretical Physics (ICTP)	Association for Women in Mathematics Awards	
European Research Council	IEEE Control Systems Society Awards	
European Commission - Research and Innova- tion	Royal Society of London Premier Medals and Awards	
International Center of Pure and Applied Mathematics (CIMPA)	London Mathematical Society Prizes	
Mathematical and physical sciences funding,	The Shaw Prize	
National Science Foundation, USA	The Henri Poincarè Prize	
Open Access Mathematics Journals	The British Royal Society Grants	
Open Access American Institute of Mathemat-	vvv	

ical Sciences (AIMS) Journal

The British Royal Society's medals and award