



GEOMETRY, DYNAMICS  
AND FIELD THEORY NETWORK

March 2024

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# *Geometry, Dynamics and Field Theory Network Infosheet*

## **Network's activities**

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

## **Outstanding event**

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**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**

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**Multidimensional Symbolic Dynamics and Lattice Models of Quasicrystals.**  
1–5 April 2024, Marseille, France.

**Well-posedness and Long Time Asymptotics of Quantum Kinetic Equations.**  
1–12 April 2024, Marseille, France.

**Modern Aspects of Analysis on Lie Groups.**  
2–5 April 2024, Göttingen, Germany.

**International Conference on Mathematical Physics and Fluid Dynamics (Digital).**  
4–5 April 2024, Athens, Greece.

**International Conference on Nonlinear Quantum Dynamics (Digital).**  
4–5 April 2024, Cancun, Mexico.

**New Horizons in Linear Dynamics, Universality, and the Invariant Subspace Problem.**  
7–12 April 2024, Oberwolfach, Germany.

**Differential Geometry Workshop in Lerici.**  
8–10 April 2024, Lerici, Italy.

**Aggregation-Diffusion Equations & Collective Behavior: Analysis, Numerics and Applications .**

8–12 April 2024, Marseille, France.

**Large Deviations for Ballistic Hydrodynamical Limits.**

8–12 April 2024, Marseille, France.

**14th International Conference on Applied Physics and Mathematics.**

10–12 April 2024, Taipei, Taiwan.

**International Conference on Theoretical Physics and Mathematics (Digital).**

11–12 April 2024, Paris, France.

**International Conference on Nonlinear Quantum Dynamics (Digital).**

11–12 April 2024, Cape Town, South Africa.

**Nonlocality: Challenges in Modeling and Simulation.**

15–19 April 2024, Providence, USA.

**Geometric Analysis.**

15 April–29 June 2024, Montreal, Canada.

**Introductory School –Higher Structures in Geometry and Mathematical Physics.**

17–21 April 2024, Marseille, France.

**Modern Methods for Differential Equations of Quantum Mechanics.**

21–26 April 2024, Banff, Canada.

**International Conference on Nonlinear Mathematical Physics (Digital).**

22–23 April 2024, Jerusalem, Israel.

**Group Operator Algebras and Non Commutative Geometry.**

22–26 April 2024, Marseille, France.

**IV Argentine Meeting on Geometric Mechanics and Mathematical Physics.**

29 April–3 May 2024, Bahía Blanca, Argentina.

**International Conference on Mathematical Physics and Dynamical Systems (Digital).**

2–3 May 2024, Singapore, Singapore.

**International Conference on Mathematical Physics and Geometric Analysis (Digital).**

2–3 May 2024, Montreal, Canada.

**Skew Braces, Braids and the Yang-Baxter Equation.**

5–10 May 2024, Banff, Canada.

**Conference on Control Theory and Inverse Problems.**

6–8 May 2024, Monastir, Tunisia.

**Higher Algebra, Geometry, and Topology.**

6–10 May 2024, Luminy, France.

**Motives in Deformation Quantization.**

6–10 May 2024, Luminy, France.

**Interacting Particle Systems: Analysis, Control, Learning and Computation.**

6–10 May 2024, Providence, USA.

**Analysis of Geometric Singularities.**

13–17 May 2024, Montreal, Canada.

**Nonlinear Days 2024: Dynamics of Group Actions and Random Walks on Groups.**

13–17 May 2024, Toronto, Canada.

**Small-time controllability of Liouville transport equations along an Hamiltonian field.**

13–17 May 2024, Luminy, France.

**Poisson Geometry and Mathematical Physics (intensive period).**

13 May–12 July 2024, Napoli, Italy.

**Geometric, Algebraic, and Physical structures around the moduli of Meromorphic Quadratic Differentials.**

13 May–21 July 2024, New York, United States.

**International Conference on Nonlinear Quantum Dynamics (Digital).**

16–17 May 2024, Sydney, Australia.

**Long-Time Behavior in Fluids.**

19–24 May 2024, Oberwolfach, Germany.

**Symmetry & Reduction in Poisson & Related Geometries.**

20–24 May 2024, Salerno, Italy.

**Symmetric Mass Generation, Topological Phases and Lattice Chiral Gauge Theories.**

20–24 May 2024, New York, United States.

**International Conference on Advanced Quantum Mechanics (Digital).**

23–24 May 2024, New York, United States.

**XXII Geometrical Seminar.**

26–31 May 2024, Vrnjačka Banja, Serbia.

**Propagation and Stability in Evolution Equations.**

26–31 May 2024, Banff, Canada.

**Constrained Dynamics, Stochastic Numerical Methods and the Modeling of Complex Systems.**

26–31 May 2024, Oberwolfach, Germany.

**Representation Theory and Related Geometry:  
Progress and Prospects.**

27–31 May 2024, Athens, Greece.

**Geometric Sciences in Action: from geometric  
statistics to shape analysis.**

27–31 May 2024, Marseille, France.

**XXII Geometrical Seminar.**

27–29 May 2024, Vrnjačka Banja, Serbia.

**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 Sym-  
plectic Geometry (Digital).**

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

**International Conference on Nonlinear Quan-  
tum Dynamics (Digital).**

3–4 June 2024, Tokyo, Japan.

**Groups of dynamical origin.**

3–7 June 2024, Pasadena, USA.

**Mathematical aspects of the physics with non-  
self-adjoint operators.**

3–7 June 2024, Marseille, France.

**Kinetic and hydrodynamic descriptions in col-  
lective 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.

**International Conference on Geometry, Inte-  
grability 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.**

10–14 June 2024, Marseille, France.

**Vertex algebras, geometric representation the-  
ory and quantum groups.**

10–14 June 2024, Marseille, France.

**Lie Groupoids, Lie Algebroids & Differentiable  
Stacks.**

11–14 June 2024, Salerno, Italy.

**Structural Dynamical Systems: Computa-  
tional Aspects.**

11–14 June 2024, Monopoli, Italy.

**International Conference on Advanced Quan-  
tum Mechanics (Digital).**

13–14 June 2024, Montreal, Canada.

**Geometry and Symmetries of SCFTs.**

17–21 June 2024, Mainz, Germany.

**International Conference on Modern Problems  
of Mathematics, Mechanics and their Applica-  
tions.**

20–22 June 2024, Baku, Azerbaijan.

**Computational Geometry.**

23–28 June 2024, Banff, Canada.

**Open Communications in Nonlinear Mathe-  
matical 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 Sys-  
tems.**

24–27 June 2024, Metz, France.

**Research School: Frontiers in Interacting Par-  
ticle Systems, Aggregation-Diffusion Equa-  
tions & 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.

**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.

**Workshop on Hamiltonian Geometry and Quantization.**

15–19 July 2024, Toronto, Canada.

**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.

**Summer School Data-driven Dynamical Systems.**

22–26 July 2024, Bremen, 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.

**School Quantum Geometry (Mathematical Methods for Gravity, Gauge Theories and Non-Perturbative Physics).**

29 July–23 August 2024, Les Houches, France.

**VIASM Summer School in Mathematical Physics.**

5–10 August 2024, Hue City, Vietnam.

**Patterns in solutions to the incompressible Euler equations.**

5–9 August 2024, Będlewo, Poland.

**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.

**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.

**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.

**Conference on Recent Developments in Topological Quantum Field Theory.**

2–7 September 2024, Beijing, China.

**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.

**Workshop on Time Delay Systems.**

24–27 September 2024, Udine, Italy.

## Virtual seminars

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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.

**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

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### Ph.D. offers

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**3 PhD positions in Mathematics.**

Uppsala University, Uppsala, Sweden

Closing date: 2 April 2024.

**PhD position in PDEs.**

Complutense University of Madrid, Madrid, Spain

Closing date: 4 April 2024.

**PhD position in Data Assimilation.**

TU Eindhoven, Eindhoven, The Netherlands

Closing date: 5 April 2024.

**PhD position in Optimization.**

Graz University of Technology, Graz, Austria

Closing date: 14 April 2024.

**11 PhD positions in Differential Geometry.**

University of Bologna, Bologna, Italy

Closing date: 15 April 2024.

**PhD position in Mathematics.**

Stockholm University, Stockholm, Sweden

Closing date: 23 April 2024.

**PhD positions in Finite Geometry.**  
Eindhoven University of Technology, Eindhoven,  
Netherlands  
Closing date: 28 April 2024.

**PhD position in Control Theory.**  
Delft University of Technology, Delft, Netherlands  
Closing date: 14 May 2024.

**PhD positions in Analysis and Geometry.**  
University of Antwerp, Antwerp, Belgium  
Closing date: 3 June 2024.

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

## Postdoctoral fellowships

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**Postdoctoral position in Complex Geometry.**  
Aarhus University, Aarhus, Denmark  
Closing date: 4 April 2024.

**Postdoctoral position in Computational Mathematics.**  
Basque Center for Applied Mathematics, Bilbo, Spain  
Closing date: 14 April 2024.

**Postdoctoral position in Geometry and Probability in Dynamical Systems.**  
Universidade Estadual de Campinas, Campinas,  
Brazil  
Closing date: 14 April 2024.

**Postdoctoral positions in Mathematics.**  
Institute of Mathematics, Physics and Mechanics,  
Ljubljana, Slovenia  
Closing date: 15 April 2024.

**Postdoctoral position in Non-commutative Geometry.**  
Georg August University of Göttingen, Göttingen,  
Germany  
Closing date: 15 April 2024.

**Postdoctoral position in Applied Mathematics.**  
University of Graz, Graz, Austria  
Closing date: 16 April 2024.

**Postdoctoral positions in Algebraic Geometry.**  
CNRS, Marseille, France  
Closing date: 30 April 2024.

**Postdoctoral positions in Symplectic Geometry.**  
Ludwig-Maximilians-Universität München, Munich,  
Germany  
Closing date: 30 April 2024.

**2 Postdoctoral positions in Fluid Dynamics.**  
Czech Academy of Sciences, Prague, Czech Republic  
Closing date: 30 April 2024.

**Postdoctoral position in Computational Fluid Dynamics.**  
New Jersey Institute of Technology, Newark(NJ),  
USA  
Closing date: 30 June 2024.

**Postdoctoral position in Stress Resilience .**  
Leibniz Institute for Resilience Research, Mainz, Ger-  
many  
Closing date: Open Until Filled.

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

## Offers for researchers

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**W3 Professorship in Applied Mathematics.**  
University of Leipzig, Leipzig, Germany  
Closing date: 4 April 2024.

**Assistant Professor of Mathematics .**  
University of Birmingham, Birmingham, United  
Kingdom  
Closing date: 7 April 2024.

**Deputy Head of Physics and Mathematics.**  
Nottingham Trent University, Nottingham, United  
Kingdom  
Closing date: 7 April 2024.

**W3 Professorship in Pure Mathematics.**

University of Freiburg, Freiburg, Germany  
Closing date: 18 April 2024.

**Tenure-Track position in Geometric Learning.**  
Eindhoven University of Technology, Eindhoven,  
Netherlands  
Closing date: 25 April 2024.

**W3 Professorship in Analysis.**  
University of Freiburg, Freiburg, Germany  
Closing date: 28 April 2024.

**Senior Lecturer in Mathematics.**  
University of the West Indies at Cave Hill, Cave Hill  
in Bridgetown, Barbados

Closing date: 30 April 2024.

**Tenure Track Assistant Professor in Math.**

University of Groningen, Groningen, Netherlands

Closing date: 12 May 2024.

**Offers for visiting researchers**

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**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, 30 September.

**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.

**Financial support**

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**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 every year.

**Summer graduate schools at MSRI.**

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: 1 October, 1 December and 1 March every year every year.

**Full- or half-year scientific programs.**

**W2 position in Differential Geometry.**

Paderborn University, Paderborn, Germany

Closing date: 19 May 2024.

**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.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December and 1 March every year every year.

**Hot topic workshops.**

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December and 1 March every year every year.

**Critical Issues in Mathematics Education Workshops.**

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December and 1 March every year every year.

**Summer Graduate Schools.**

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

**Deadline: 1 October, 1 December and 1 March every year every year.**

#### **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.**

#### **TWAS Research Grants Programme in Basic Sciences: Individuals.**

To high-level research projects carried out in one of the S&T-lagging countries.

**Deadline: 3 April 2024.**

#### **TWAS Research Grants Programme in Basic Sciences: Groups.**

To high-level research projects carried out in one of the S&T-lagging countries.

**Deadline: 3 April 2024.**

#### **TWAS Research Grants Programme for Interdisciplinary Research: Collaborative Grants.**

To high-level scientists for interdisciplinary research projects carried out by two Principal Investigators (PIs) in the S&T-lagging countries.

**Deadline: 3 April 2024.**

## **News and publications**

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### **Journals**

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#### **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**

#### **IMU Conference support program.**

For conferences in developing or economically disadvantaged countries.

**Deadline: 15 April, 15 July and 1 October.**

#### **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.**

#### **Hosting a workshop at AIMS South Africa.**

Contributions for workshops about AIMS's research focus areas.

**Deadline: No precise deadline.**

### **Preprints**

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#### **Network's members**

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Giannis Delimpaltadakis, Jorge Cortés and W. P. M. H. Heemels: *Continuous Approximations of Projected Dynamical Systems via Control Barrier Functions*.

2403.00447 (version 2)

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

Jianguo Hu, Juan-Pablo Ortega and Daiying Yin: *A Structure-Preserving Kernel Method for Learning Hamiltonian Systems*.

2403.10070

[stat.ML, cs.LG, math.DS]

#### **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.**

Lyudmila Grigoryeva, Boumediene Hamzi, Felix P. Kemeth, Yannis Kevrekidis, G. Manjunath, Juan-Pablo Ortega and Matthys J. Steynberg: *Data-driven cold starting of good reservoirs*.

2403.10325

[math.DS]

Marc Basquens, Antonio Lasanta, Emanuel Mompó, Valle Varo and Eduardo J. S. Villaseñor: *Spacetime symmetries and geometric diffusion*.

2403.12270



[gr-qc, math-ph, math.MP]

William Clark, Leonardo Colombo and Anthony Bloch: *The Interplay Between Symmetries and Im-*

*pact Effects on Hybrid Mechanical Systems.*

2403.12842

[cs.RO, math.DG]

## Network's collaborators

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Arjan van der Schaft, Bart Besselink and Anne-Men Huijzer: *Kron reduction of nonlinear networks.*

2403.00400

[math.OC]

Óscar García-Prada and Miguel González: *Cyclic Higgs bundles and the Toledo invariant.*

2403.00415

[math.AG, math.DG]

Bozidar Jovanovic: *D'Alamebrt and Hamiltonian principles and classical relativity in Lagrangian mechanics.*

2403.01114

[math-ph, math.MP]

Matías I. Caruso, Javier Fernández, Cora Tori and Marcela Zuccalli: *On discrete Routh reduction and structures on the reduced space.*

2403.05305

[math.DG, math.DS]

Veronica Centorrino, Alexander Davydov, Anand Gokhale, Giovanni Russo and Francesco Bullo: *On Weakly Contracting Dynamics for Convex Optimization.*

2403.07572

[math.OC, math.DS]

Alexander Davydov and Francesco Bullo: *Exponential Stability of Parametric Optimization-Based Controllers via Lur'e Contractivity.*

2403.08159

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

Ugo Boscain, Kévin Le Balc'H and Mario Sigalotti: *Schrödinger eigenfunctions sharing the same modulus and applications to the control of quantum systems.*

2403.08341

[math.OC, math.SP]

Andreas Fring, Takano Taira and Bethan Turner: *Higher time-derivative theories from space-time interchanged integrable field theories.*

2403.11949

[hep-th, math-ph, math.MP]

G. Moza, C. Lazureanu, F. Munteanu, C. Sterbeti and A. Florea: *Analysis of a class of Kolmogorov systems.*

2403.13364

[math.DS]

G. Moza, C. Lazureanu, F. Munteanu, C. Sterbeti and A. Florea: *Bifurcation diagrams in a class of Kolmogorov systems.*

2403.14211

[math.DS]

## Links of interest

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Geometry, Dinamics and Field Theory Network

Journal "Geometric Mechanics"

International Mathematical Union (IMU) Newsletter - January 2024

Instituto de Ciencias Matemáticas (ICMAT) Newsletter - February 2024

International Association of Mathematical Physics Bulletin - January 2024

European Mathematical Society

Royal Spanish Mathematical Society (RSME)

International Association of Mathematical Physics

Open Access American Institute of Mathematical Sciences (AIMS) Journal

International Centre for Theoretical Physics (ICTP)

European Research Council

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 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

Mathematical Association of America 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

European Mathematical Society Funding and Sponsorship

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](mailto:gmcactivities@gmail.com)