



GEOMETRY, DYNAMICS
AND FIELD THEORY NETWORK

January 2024

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Geometry, Dynamics and Field Theory Network Infosheet

Network's activities

XVIII International Young Researchers Workshop in Geometry, Dynamics and Field Theory.

21–23 February 2024, Warsaw, Poland.

Other conferences

International Conference on Mathematical and Theoretical Physics (Digital).

1–2 February 2024, Rio de Janeiro, Brazil.

International Conference on Mathematical Physics (Digital).

1–2 February 2024, Guangzhou, China.

International Conference on Mathematical Physics, and Applications (Digital).

2–3 February 2024, Rio de Janeiro, Brazil.

Phase Mixing, Kinetic Theory and Fluid Mechanics.

4–9 February 2024, Les Diablerets, Switzerland.

Exponential Fields.

4–9 February 2024, Banff, Canada.

International Conference on Advanced Quantum Mechanics (Digital).

5–6 February 2024, Kuala Lumpur, Malaysia.

Geometric and Asymptotic Group Theory with Applications.

5–9 February 2024, Luminy, France.

Lectures on Statistical Field Theories.

5–16 February 2024, Firenze, Italy.

Texas Analysis and Mathematical Physics Symposium.

9–11 February 2024, Texas, USA.

Interfaces, Free Boundaries and Geometric Partial Differential Equations.

11–16 February 2024, Oberwolfach, Germany.

Numerical Analysis of Multiphysics Problems.
12–16 February 2024, Providence, USA.

Structured Machine Learning and Time–Stepping for Dynamical Systems.

18–23 February 2024, Banff, Canada.

Workshop in Mathematical Physics.

18–23 February 2024, Les Diablerets, Switzerland.

International Conference on Mathematical Physics, and Applications (Digital).

19–20 February 2024, Paris, France.

International Conference on Nonlinear Mathematical Physics (Digital).

19–20 February 2024, Rome, Italy.

International Conference on Mathematical Physics (Digital).

19–20 February 2024, Paris, France.

International Conference on Mathematical and Theoretical Physics (Digital).

19–20 February 2024, Paris, France.

Workshop on Quantum Simulators of the Future: From Dynamical Gauge Fields to Lattice Gauge Theories.

20–22 February 2024, Trieste, Italy.

International Conference on Mathematical Physics, and Applications (Digital).

26–27 February 2024, Sydney, Australia.

International Conference on Quantum Field Theory (Digital).

26–27 February 2024, Sydney, Australia.

VIII Latin American Workshop on Optimization and Control.

26 February–1 March 2024, Córdoba, Argentina.

Brazil-France School on Foliation Theory.

26 February–4 March 2024, Marseille, France.

Mathematical Aspects of $N=4$ Super-Yang-Mills Theory.

26 February–1 March 2024, New York, United States.

Mini-Workshop: Skew Braces and the Yang–Baxter Equation.

26 February–4 March 2024, Oberwolfach, Germany.

Mini-Workshop: Free Boundary Problems Arising in Fluid Mechanics.

26 February–4 March 2024, Oberwolfach, Germany.

International Conference on Mathematical and Theoretical Physics (Digital).

4–5 March 2024, Barcelona, Spain.

Foliations and Geometry.

4–8 March 2024, Luminy, France.

International Conference on Physics and Geometry (Digital).

4–5 March 2024, Rome, Italy.

International Conference on Mathematical and Computational Methods in Physics (Digital).

11–12 March 2024, London, United Kingdom.

International Conference on Nonlinear Mathematical Physics (Digital).

11–12 March 2024, Prague, Czechia.

Conformal Field Theory, Integrability, and Geometry.

11–15 March 2024, New York, USA.

PDEs and Geometry: Numerical Aspects.

11–15 March 2024, Providence, USA.

School of Physics and Mathematics Without Frontiers.

11–23 March 2024, La Habana, Cuba.

New Directions in far from Equilibrium Integrability and beyond.

11 March–10 May 2024, New York, United States.

Geometry, Statistical Mechanics, and Integrability.

11 March–14 June 2024, Los Angeles, United States.

New Directions in far from Equilibrium Integrability and beyond.

11 March–10 May 2024, New York, United States.

International Conference on Mathematical Physics, and Applications (Digital).

18–19 March 2024, Madrid, Spain.

International Conference on Mathematical Physics and Advanced Mathematics (Digital).

18–19 March 2024, Tokyo, Japan.

Workshop on New Directions in Conformal Field Theory.

18–22 March 2024, Toronto, Canada.

Rare Events in Dynamical Systems.

18–22 March 2024, Vienna, Austria.

Dynamics and Thermodynamics of Large Interacting Systems.

18–22 March 2024, Warszawa, Poland.

International Conference on Nonlinear Problems in Mathematical Physics (Digital).

25–26 March 2024, Paris, France.

International Conference on Mathematical and Computational Methods in Physics (Digital).

25–26 March 2024, Paris, France.

Mathematical and Computational Modelling of Anti-Diffusive Phenomena.

25–28 March 2024, Cambridge, United Kingdom.

Theoretical and Analytical Aspects of Kinetic Equations in Plasmas.

25–29 March 2024, Marseille, France.

Statistical Mechanics and Discrete Geometry.

25–29 March 2024, Los Angeles, USA.

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.

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.

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.

Higher Algebra, Geometry, and Topology.

6–10 May 2024, Luminy, France.

Motives in deformation quantization.

6–10 May 2024, Luminy, France.

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.

Gravitational physics and its mathematical analysis.

2–7 June 2024, Les Diablerets, Switzerland.

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 non-self-adjoint operators.

3–7 June 2024, Marseille, France.

Kinetic and hydrodynamic descriptions in collective behavior.

3–7 June 2024, Warszawa, Poland.

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.

Harmonic analysis and partial differential equations.

10–14 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.

International Conference on Advanced Quantum Mechanics (Digital).

13–14 June 2024, Montreal, Canada.

International Conference on Modern Problems of Mathematics, Mechanics and their Applications.

19–21 June 2024, Baku, Azerbaijan.

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.

Research School: Frontiers in Interacting Particle Systems, Aggregation-Diffusion Equations & Collective Behavior.

24–28 June 2024, Marseille, France.

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.

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.

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.

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.

International Conference on Nonlinear Quantum Dynamics (Digital).

29–30 July 2024, Vienna, Austria.

XLIV Dynamics Days Europe.

29 July–2 August 2024, Bremen, Germany.

Online courses

Condensed Matter Field Theory.

11 March–31 July 2024, Trieste, Italy.

Gauge/Gravity Duality.

11 March–31 July 2024, Trieste, Italy.

Virtual seminars

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

Instituto de Ciencias Matemáticas' seminars on these topics.

Mathematics and High Energy Physics Seminars.

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

Ph.D. offers

PhD positions in Pure Mathematics.

KU Leuven, Leuven, Belgium

Closing date: 12 February 2024.

PhD position in Control.

Friedrich-Alexander-Universität Erlangen-Nürnberg,
Erlangen, Germany

Closing date: 12 February 2024.

PhD position in Integrable Systems.

Swansea University, Swansea, United Kingdom

Closing date: 14 February 2024.

PhD positions in Mathematics.

Chalmers University of Technology, Gothenburg, Sweden

Closing date: 19 February 2024.

PhD position in Dynamical Systems.

University of Haute-Alsace, Mulhouse, France

Closing date: 28 February 2024.

PhD positions in Homogenization Theory.

Mid Sweden University, Östersund, Sweden

Closing date: 29 February 2024.

PhD positions in Quantum Mathematics.

University of Southern Denmark, Odense, Denmark

Closing date: 1 March 2024.

PhD position in Train Networks.

KU Leuven, Leuven, Belgium

Closing date: 25 March 2024.

12 PhD positions in Discrete Mathematics.

University of Graz, Graz, Austria

Closing date: 30 March 2024.

PhD position in Geometry and Optimization.

Centrum Wiskunde and Informatica, Amsterdam,
Netherlands

Closing date: 31 March 2024.

Postdoctoral fellowships

Postdoctoral position in Complex Geometry.

Free University of Berlin, Berlin, Germany

Closing date: 5 February 2024.

3 Postdoctoral positions in Pure Mathematics.

Friedrich-Alexander-Universität Erlangen-Nürnberg,
Erlangen, Germany

Closing date: 12 February 2024.

2 Postdoctoral positions in Mathematics.

Scuola Internazionale Superiore di Studi Avanzati,
Trieste, Italy

Closing date: 12 February 2024.

Postdoctoral position in Geophysical Flow Models.

TU Darmstadt, Darmstadt, Germany

Closing date: 15 February 2024.

Postdoctoral position in Lie Theory.

Carleton University, Ottawa, Canada

Closing date: 15 February 2024.

4 Postdoctoral positions in Probability and Mathematical Physics.

Institute of Mathematics, Physics and Mechanics,
Ljubljana, Slovenia

Closing date: 15 February 2024.

Postdoctoral positions in Mathematics.

Tor Vergata University of Rome, Rome, Italy

Closing date: 25 February 2024.

Postdoctoral positions in Mathematics.

Institute of Information Theory and Automation,
Prague, Czechia

Closing date: 29 February 2024.

Fellowship in Variational PDEs.

Rutgers University, New Brunswick(NJ), USA

Closing date: 29 February 2024.

Visiting professor.

University of Wuerzburg, Wuerzburg, Germany

Closing date: 29 February 2024.

Postdoctoral positions in Mathematics.

Tsinghua University, Beijing, China

Closing date: 1 March 2024.

Postdoctoral position in Graded Differential Geometry.

University of Hradec Králové, Hradec Králové, Czech Republic

Closing date: 15 March 2024.

Humboldt research fellowship for postdoctoral researchers.

Alexander von Humboldt Foundation

Closing date: Open.

Offers for researchers

W3 Professorship in Numerical Mathematics.

Friedrich-Alexander University, Erlangen, Germany

Closing date: 18 February 2024.

Closing date: 29 February 2024.

Chief Investigators in Mathematics.

Institute for Basic Science, Daejeon, South Korea

Closing date: 22 February 2024.

Senior Lecturer in Mathematics.

University of Gothenburg, Gothenburg, Sweden

Closing date: 1 March 2024.

Professor position in Geometry.

University of Oxford, Oxford, United Kingdom

Closing date: 25 February 2024.

Tenure-track position in Geometry.

University of Neuchâtel, Neuchâtel, Switzerland

Closing date: 15 March 2024.

W2 Professorship in Symplectic Structures.

University of Birmingham, Cologne, Germany

Closing date: 25 February 2024.

Open Rank position in Pure Mathematics.

Xi'an Jiaotong - Liverpool University, Suzhou, China

Closing date: 15 March 2024.

Tenure-Track position in Mathematics.

Pennsylvania State University, State College(PA), United States of America

Assistant Professor in Mathematics.

Universidad de Concepción, Concepción, Chile

Closing date: 31 March 2024.

Offers for visiting researchers

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.

Closing date: Open at any time.

Simons Visiting Professors at Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Junior or senior scientists from outside Europe.

Closing date: Open.

Research in Residence at CIRM.

Centre International de Rencontres Mathématiques (CIRM), France.

2 to 4 researchers.

Closing date: Open at any time.

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.

Visiting scholar opportunity in Cambridge.

University of Cambridge, United Kingdom.

Scholars and fellows for development of research, teaching and collaboration.

Closing date: Open.

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.

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.

International Research in Groups at CIRM.

Centre International de Rencontres Mathématiques (CIRM), France.

Small groups of researchers for 2 to 4 weeks.

Visiting research fellow in Kent State University.

Mathematics Department-KSU, Ohio, USA.

Visiting for scholar researchers.

Closing date: Open.

Financial support

Thematic programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: 1 March, 1 October and 1 December every year. Three years ahead.

Hot topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

Summer graduate schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

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

Full- or half-year scientific programs.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

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

Hot topic workshops.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

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

Critical Issues in Mathematics Education Workshops.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

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

Summer Graduate Schools.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

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

IMU Volunteer Lecturer Program.

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

Deadline: 15 March, 1 June 2024, and 1 September 2023.

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.

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

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.

Preprints

Network's members

José Luis Carmona Jiménez, Marco Castrillón López and José Carlos Díaz-Ramos: *The Ambrose-Singer Theorem for cohomogeneity one Riemannian manifolds.*

2312.16934
[math.DG]

E. Stratoglou, A. Anahory Simões, A. Bloch and L. Colombo: *Virtual Constraints on Lie groups.*

2312.17531
[math.OC, cs.SY, eess.SY, math-ph, math.MP]

Jacob R. Goodman and Leonardo J. Colombo: *Reduction by Symmetry and Optimal Control with Broken Symmetries on Riemannian Manifolds.*

2401.01129
[math.OC, cs.SY, eess.SY, math.DG, math.DS]

Anthony Bloch, Marta Farré Puiggali and David Martín de Diego: *Metriplectic Euler-Poincaré equations: smooth and discrete dynamics.*

2401.05220
[math-ph, math.DS, math.MP]

J. C. González-Dávila: *All invariant contact metric structures on tangent sphere bundles of compact rank-one symmetric spaces.*

2401.06448
[math.DG]

José M. Amigó, Roberto Dale and Piergiulio Tempesta: *Permutation group entropy: a new route to complexity for real-valued processes.*

2401.11340
[math-ph, math.MP, nlin.CD]

Miguel C. Muñoz-Lecanda and Narciso Román-Roy: *Geometry of Mechanics.*

2401.12650
[math-ph, hep-th, math.DG, math.MP]

A. Ibort and M. Jiménez-Vázquez: *A Lagrangian path integral approach to the qubit.*

2401.13763
[quant-ph, math-ph, math.MP]

María Barbero-Liñán, Juan Carlos Marrero and David Martín de Diego: *From retraction maps to symplectic-momentum numerical integrators.*

2401.14800
[math.NA, cs.NA, math.SG]

Network's collaborators

N. Aizawa and V. K. Dobrev: *Invariant Differential Operators for Non-Compact Lie Groups: the $Sp(n, 1)$ Case.*

2312.17000
[math.RT, math-ph, math.MP]

Murilo Do Nascimento Luiz, Igor Mencattini and Marco Pedroni: *Quasi-Lie bialgebroids, Dirac structures and deformations of Poisson quasi-Nijenhuis manifolds.*

2312.17541 (version 2)
[math.DG]

Enrico Celeghini, Manuel Gadella and Mariano A. del Olmo: *Image Processing and Legendre Polynomials.*

2312.17743
[math-ph, math.MP]

Arjan van der Schaft: *Reciprocity of nonlinear systems.*

2401.00305
[math.OC]

Yi Lin and Zuoqin Wang: *Equivariant Morse theory for Lie algebra actions on Riemannian foliations.*

2401.01338
[math.DG, math.SG]

N. Aizawa, Ren Ito and Toshiya Tanaka: *$\mathcal{N} = 2$ Double graded supersymmetric quantum mechanics via dimensional reduction.*

2401.02742
[math-ph, hep-th, math.MP]

Rui Loja Fernandes and Maarten Mol: *Kähler metrics and toric Lagrangian fibrations.*

2401.02910
[math.DG, math.SG]

M. Baradaran, L. M. Nieto and S. Zarrinkamar: *On Some Quantum Correction to the Coulomb Potential in Generalized Uncertainty Principle Approach.*

2401.03463
[quant-ph, gr-qc, math-ph, math.MP]

Simon-Raphael Fischer and Camille Laurent-Gengoux: *A classification of neighborhoods around leaves of a singular foliation.*

2401.05966
[math.DG]

Theodore D. Drivas, Daniil Glukhovskiy and Boris Khesin: *Singular vortex pairs follow magnetic geodesics.*

2401.08512

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

Alberto S. Cattaneo, Filippo Fila Robattino, Valentino Huang and Manuel Tecchiolli: *Gravity Coupled with Scalar, $SU(n)$, and Spinor Fields on Manifolds with Null-Boundary.*

2401.09337 (version 2)

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

Shanghua Zheng, Li Guo and Huizhen Qiu: *Extended Rota-Baxter algebras, diagonally colored DeLannoy paths and Hopf algebras.*

2401.11363 (version 2)

[math.RA, math-ph, math.CO, math.MP]

Jaume Giné and Dmitry Sinelshchikov: *On the geometric and analytical properties of the anharmonic oscillator.*

2401.12316

[math.DS, math.CA]

Leia Barrowes, Fred C. Adams, Anthony M. Bloch and Scott Watson: *Generalized Models for Inflationary Preheating: Oscillations and Symmetries.*

2401.13083

[astro-ph.CO, hep-ph, math-ph, math.MP]

Till Preuster, Manuel Schaller and Bernhard Maschke: *Jet space extensions of infinite-dimensional Hamiltonian systems.*

2401.15096

[math.AP, cs.SY, eess.SY, math-ph, math.MP]

Yangyon Hong, Chengming Bai and Li Guo: *A bialgebra theory of Gel'fand-Dorfman algebras with applications to Lie conformal bialgebras.*

2401.13608

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

Paolo Aniello, Sonia L'Innocente, Stefano Mancini, Vincenzo Parisi, Ilaria Svampa and Andreas Winter: *Characterising the Haar measure on the p -adic rotation groups via inverse limits of measure spaces.*

2401.14298

[math-ph, math.FA, math.GR, math.MP, math.NT]

Spyridon Filippas, Camille Laurent and Matthieu Léautaud: *Unique continuation for Schrödinger operators with partially Gevrey coefficients.*

2401.14820

[math.AP, math.OC]

Links of interest

Geometry, Dynamics and Field Theory Network

Journal "Geometric Mechanics"

International Mathematical Union (IMU) Newsletter - January 2024

Instituto de Ciencias Matemáticas (ICMAT) Newsletter - December 2023

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 Poincaré 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
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