

# April 2024

**Editors**: Miguel Berbel, Viviana Díaz, Rodrigo Sato

# **Contents**

Network's activities	1
Outstanding event	1
Other conferences	1
Virtual seminars	5
Job offers, fellowships and	
supports	5
Ph.D. offers	5
Postdoctoral fellowships	6
Offers for researchers	6
Offers for visiting researchers	7
Financial support	7
News and publications	8
Journals	8
Preprints	8
Network's members	8
Network's collaborators	9
Links of interest	9

# 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

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

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 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.

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

3–14 June 2024, Toronto, Canada.

International Conference on Geometry, Integrability and Quantization.

6-13 June 2024, Varna, Bulgaria.

 ${\bf Great\ Lakes\ Mathematical\ Physics\ Meeting.}$ 

7–9 June 2024, Michigan, USA.

Geometric And Variational Analysis.

9–15 June 2024, Bedlewo, 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 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.

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

20–22 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.

Summer School on Effective Approximation and Dynamics of Many-Body Quantum Systems.

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.

 $33\mathrm{rd}/35\mathrm{th}$  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.

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.

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.

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, Bedlewo, 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.

Nonlocal Problems in Mathematical Physics, Analysis and Geometry.

15–20 September 2024, Hangzhou, China.

Non Commutative Geometry and Higher Structures.

17–21 September 2024, Thessaloniki, Greece.

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.

# 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, 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 Mathematics.

Mälardalen University, Västerås, Sweden Closing date: 6 May 2024.

## 13 PhD positions in Mathematics.

University of Padova, Padova, Italy Closing date: 13 May 2024.

## PhD position in Control Theory.

Delft University of Technology, Delft, Netherlands Closing date: 14 May 2024.

#### PhD position in Mean Field Control.

Université Côte d'Azur, Nice, France Closing date: 31 May 2024.

#### 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.

# PhD position in Control Theory and Epidemiology.

University of Lille, Lille, France Closing date: 30 June 2024.

# 15 PhD positions in Tensor Modelling, Geometry and Optimisation.

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

## Postdoctoral fellowships

# Postdoctoral position in Topological Data Analysis.

Vrije Universiteit Amsterdam, Amsterdam, Netherlands

Closing date: 8 May 2024.

## Postdoctoral positions in General Relativity.

Uppsala University, Uppsala, Sweden

Closing date: 14 May 2024.

# Postdoctoral positions in Calculus of Variations.

University of Vienna, Vienna, Austria

Closing date: 27 May 2024.

## Postdoctoral position in Mean Field Control.

Université Côte d'Azur, Nice, France

Closing date: 31 May 2024.

# Postdoctoral position in Geometric Deep Learning.

Umeå University, Umeå, Sweden Closing date: 31 May 2024.

# Postdoctoral positions in Geometric Variational Problems.

Bocconi University, Milan, Italy Closing date: 31 May 2024.

#### Offers for researchers

## Tenure Track Assistant Professor in Math.

 $\ \, \text{University of Groningen, Groningen, Netherlands} \\$ 

Closing date: 12 May 2024.

## Lecturer in Mathematics.

University of Galway, Galway, Ireland

Closing date: 15 May 2024.

# Lecturer in Applied Mathematics .

University of Glasgow, Glasgow, United Kingdom

Closing date: 18 May 2024.

## W2 position in Differential Geometry.

Paderborn University, Paderborn, Germany

Closing date: 19 May 2024.

## W1 Professorship in Analysis.

Technical University of Berlin, Braunschweig, Germany

# Posdoctoral position in Hyperbolic Geometry.

University of Strasbourg, Strasbourg, France

Closing date: 7 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.

# Postdoctoral position in Control Theory and Epidemiology.

INRIA University of Lille, Lille, France

Closing date: 30 June 2024.

# ISTA-Fellow Postdoctoral Program .

Institute of Science and Technology Austria,

Klosterneuburg, Austria Closing date: 12 June 2024.

# Humboldt research fellowship for postdoctoral researchers.

Alexander von Humboldt Foundation

Closing date: Open.

Closing date: 31 May 2024.

#### Associate Professor in Mathematical Analysis.

Aarhus University, Aarhus, Denmark

Closing date: 31 May 2024.

#### Associate Professor in Mathematics.

University of Ostrava, Ostrava, Czech Republic

Closing date: 31 May 2024.

# 3 Senior Researchern positions in Algebraic or Complex Geometry.

Institute for Basic Science, Daejeon, Korea

Closing date: 9 June 2024.

#### Associate Professor in Mathematics.

New York City College of Technology, New York,

United States of America

Closing date: Open Until Filled.

# 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 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

#### 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.

#### 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.

Simons Laufer Mathematical Sciences Institute, Berkelev, 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.

## 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.

## 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

Ángel Ballesteros, Alfonso Blasco and Iván Gutiérrez-Sagredo: Integrable deformations of Rikitake systems, Lie bialgebras and bi-Hamiltonian structures. 2404.01073

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

Kehan Long, Jorge Cortés and Nikolav Atanasov: Distributionally Robust Policy and Lyapunov-Certificate Learning.

2404.03017

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

Eva Miranda and Jonathan Weitsman: Moser and Weinstein theorems for prequantum systems.

2404.04988

[math.SG, math.DG]

Alberto Enciso, Angela Pistoia and Luigi Provenzano: Nonexistence of Courant-type nodal domain bounds for eigenfunctions of the Dirichlet-to-Neumann operator.

2404.07138

[math.SP, math.AP, math.DG]

Renzo Bruera, Robert Cardona, Eva Miranda and Daniel Peralta-Salas: Topological entropy of Turing complete dynamics.

2404.07288

[math.DS, cs.CC]

Juan-Pablo Ortega and Florian Rossmannek: State-Space Systems as Dynamic Generative Models.

2404.08717

[stat.ML, cs.LG, math.DS, math.PR, math.ST, stat.TH

Cédric M. Campos, David Martín de Diego and José Torrente: Momentum-based gradient descent methods for Lie groups.

2404.09363

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

Razvan Gabriel Iagar and Ariel Sánchez: Existence and multiplicity of blow-up profiles for a quasilinear diffusion equation with source.

2404.10504

[math.AP, math.DS]

Malika Belrhazi and Tom Mestdag:  $Geodesic\ extensions\ of\ mechanical\ systems\ with\ nonholonomic\ constraints.$ 

2404.11997

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

L. C. García-Naranjo, R. Ortega and A. J. Ureña: Invariant measures as obstructions to attractors in dynamical systems and their role in nonholonomic mechanics.

2404.14156

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

#### Network's collaborators

Abimael Bengochea, Jaime Burgos-García and Ernesto Pérez-Chavela: Periodic orbits near collision in a restricted four-body problem for the eight choreography.

2404.01463

[math.DS]

Brian K. Tran, Ben S. Southworth and Melvin Leok: On Properties of Adjoint Systems for Evolutionary PDEs.

2404.02320

[math.OC, cs.NA, math.NA]

Petre Birtea, Zohreh Ravanpak and Cornelia Vizman: Double bracket vector fields on Poisson manifolds. 2404.03221

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

Dan Goreac, Jonas Kirchhoff and Bernhard Maschke: Generating functions for irreversible Hamiltonian systems.

2404.04092 (version 2)

[math-ph, math.MP]

Anthony M. Bloch, Peter E. Crouch and Tudor S. Ratiu: Symmetric Discrete Optimal Control and Deep Learning.

2404.06556

[math.OC]

Joshua Pickard, Cooper Stansbury, Amit Surana, Indika Rajapakse and Anthony Bloch: Geometric Aspects of Observability of Hypergraphs.

2404.07480

[math.DS]

Xiao Tan, Changxin Liu, Karl H. Johansson and Dimos V. Dimarogonas: A continuous-time violation-free multi-agent optimization algorithm and its applications to safe distributed control.

2404.07571

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

Changxin Liu, Xiao Tan, Xuyang Wu, Dimos V. Dimarogonas and Karl H. Johansson: Achieving violation-free distributed optimization under coupling constraints.

2404.07609

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

Leonardo F. Toso, Han Wang and James Anderson: Asynchronous Heterogeneous Linear Quadratic Regulator Design.

2404.09061

[math.OC]

Siyuan Chen, Chengming Bai and Li Guo: Post-Poisson algebras and Poisson Yang-Baxter equation via bimodule algebra deformations.

2404.11232

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

Alexander Davydov and Francesco Bullo: Perspectives on Contractivity in Control, Optimization, and Learning.

2404.11707

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

David Barranco, Şengül Kuru and Javier Negro: Electric and magnetic waveguides in graphene: quantum and classical.

2404.16114

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

Zohreh Ravanpak: Nijenhuis-Lie bialgebras.

2404.17708

[math.DG]

## Links of interest

Geometry, Dinamics and Field Theory Network

Journal "Geometric Mechanics"

International Mathematical Union (IMU) Newsletter - March 2024 Instituto de Ciencias Matemáticas (ICMAT) Newsletter - March 2024

International Association of Mathematical Physics Bulletin - January 2024

**European Mathematical Society** 

**Prizes** International Association of Mathematical Other Prizes of International Mathematical **Physics** Union Open Access American Institute of Mathemat-American Mathematical Society Prizes and ical Sciences (AIMS) Journal Awards International Centre for Theoretical Physics Mathematical Association of America Awards (ICTP) Association for Women in Mathematics European Research Council Awards European Commission - Research and Innova-**IEEE Control Systems Society Awards** tion Royal Society of London Premier Medals and International Center of Pure and Applied Awards Mathematics (CIMPA) **London Mathematical Society Prizes** Mathematical and physical sciences funding, National Science Foundation, USA The Shaw Prize **Open Access Mathematics Journals** The Henri Poincarè Prize Open Access Physics Journals European Mathematical Society Funding and Sponsorship Societat Catalana de Matemàtiques (SCM) journal on Mathematics The British Royal Society Grants

International Mathematical Union Awards and

The British Royal Society's medals and award

Royal Spanish Mathematical Society (RSME)

SIAM Activity Groups award various prizes

NOTE: If you want to include information in this info-sheet, please send it to gmcactivities@gmail.com