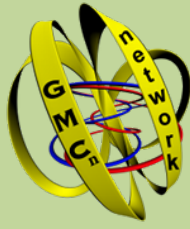


GMC Network Infosheet

February 2018



Geometry, Mechanics and Control Network Infosheet

February 2018

Editors: Rodrigo Sato, Jorge
Jover, Viviana Díaz

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Network's activities

60 Years Alberto Ibert Fest. Classical and Quantum Physics: Geometry, Dynamics and Control.

5–9 March 2018, ICMAT, Madrid, Spain.

<https://www.icmat.es/congresos/2018/IBORT-FEST/>

12th International ICMAT Summer School on Geometry, Mechanics and Control.

2–6 July, 2018. Santiago de Compostela, Spain.

<http://gmcnet.webs.ull.es/?q=activity-detall/1927>

VI Iberoamerican Meeting on Geometry, Mechanics and Control.

13–17 August 2018, Guanajuato, Mexico.

<http://gmc.eventos.cimat.mx/node/760>

Job offers, fellowships and awards

Ph.D. offers

PhD fellowship.

The aim of this project is to incorporate available data information in physical models of moving flexible structures, by making use of techniques based on differential geometry and in particular shape analysis on Lie groups and homogeneous manifolds. Norwegian University of Science and Technology (Trondheim, Norway).

Closing date: 26 March 2018.

<https://www.jobbnorge.no/ledige-stillinger/stilling/148547>

PhD student position in Mathematics.

Available positions in the division of Algebra and Geometry of the Department of Mathematical Sciences.

Chalmers University of Technology.

Closing date: 29 March 2019.

<http://www.chalmers.se/en/about-chalmers/Working-at-Chalmers/Vacancies/Pages/default.aspx?rmpage=job&rmjob=5959&rmclang=UK>

PhD stipends in Mathematics.

PhD students will be affiliated with one of the six research groups, such as Geometric Analysis and Mathematical Physics, Non-commutative Geometry, or Topology.

University of Copenhagen (Denmark).

Closing date: 1 April 2018.

<http://employment.ku.dk/phd/?show=146764>

PhD fellowship.

The aim of this project is to incorporate available data information in physical models of moving flexible structures, by making use of techniques based on differential geometry and in particular shape analysis on Lie groups and homogeneous manifolds.

Norwegian University of Science and Technology (Trondheim, Norway).

Closing date: 26 March 2018.

<https://www.jobbnorge.no/ledige-stillinger/s-tilling/148547>

PhD student position in Mathematics.

Available positions in the division of Algebra and Geometry of the Department of Mathematical Sciences.

Chalmers University of Technology.

Closing date: 29 March 2019.

<http://www.chalmers.se/en/about-chalmers/Working-at-Chalmers/Vacancies/Pages/default.aspx?rmpage=job&rmjob=5959&rmlang=UK>

PhD stipends in Mathematics.

PhD students will be affiliated with one of the six research groups, such as Geometric Analysis and Mathematical Physics, Non-commutative Geometry, or Topology.

University of Copenhagen (Denmark).

Closing date: 1 April 2018.

<http://employment.ku.dk/phd/?show=146764>

PhD students in Mathematics.

Three positions offered within any of the research topics of the department.

Stockholm University (Sweden).

Closing date: 23 April 2018.

<https://www.su.se/english/about/working-at-su/jobs?rmpage=job&rmjob=4914&rmlang=UK>

INdAM Doctoral programme fellowships in Mathematics.

These fellowships offer to researchers from all over the world the opportunity to initiate their doctoral studies in Italy.

PhD Schools in Italy.

Postdoctoral fellowships

Research fellow in Pure Mathematics.

Postdoctoral research position associated with the ARC funded Discovery Project “Frobenius manifolds from a geometrical and categorical viewpoint”.

University of Melbourne (Australia).

Closing date: 31 May 2018.

<http://www.altamatematica.it/cofund-website/dp-2015/main/>

PhD positions in Applied Geometry.

Candidates with a strong background in at least one of the fields of Geometric Modelling and Numerical Analysis are encouraged to apply. Expertise on Isogeometric Analysis is particularly welcome.

Institute of Applied Geometry, Johannes Kepler University (Linz, Austria).

Closing date: Open.

http://www.ag.jku.at/home_en.htm

INPhINIT Doctoral fellowship program.

3-year employment contract at any of the offered positions.

Research centres in Spain.

Closing date: Open.

<https://obrasociallacaixa.org/en/investigacion-y-becas/programa-de-becas-de-posgrado/inphinit/programme-description>

High Dimensional Geometric Algorithms.

The student will conduct research on the subject of High Dimensional Geometric Algorithms, present the fruits of this research at top conferences and publish them in quality peer-reviewed journals of the field, culminating in a PhD thesis to be defended in public.

CWI (Amsterdam, Netherlands).

Closing date: Open until filled.

<http://homepages.cwi.nl/~dadush/ad/phd-position.html>

PhD position in Control Theory.

The project aims to developing controllers for a physics-based model of the L-H transition in a tokamak.

NWO (Netherlands).

Closing date: Open until filled.

<https://www.nwo-i.nl/en/vacature/phd-position-developing-controllers-for-a-physics-based-model-of-the-l-h-transition-in-a-tokamak/>

Closing date: 3 March 2018.

<http://jobs.unimelb.edu.au/caw/en/job/892898>

Postdoctoral research grants.

Three positions in different research areas, such as Geometry and Topology.

University of Coimbra (Portugal).

Closing date: 6 March 2018.

<http://www.eracareers.pt/opportunities/index.aspx?task=showAnuncioOpportunities&jobId=97791&idc=1>

Postdoc in Geometric Machine Learning.

The project focus on learning locally adaptive metrics and building statistical models that respect these. We model the locally adaptive metric as a Riemannian metric, which gives a firm mathematical foundation to build upon. We are interested in building both theoretical foundations and practical algorithms working with this class of models. Working on this, you will develop new insights using differential geometry, machine learning, probability theory, and much more.

Technical University of Denmark (Copenhagen, Denmark).

Closing date: 15 March 2018.

<http://www.dtu.dk/english/career/job?id=41928b59-6e22-46df-8952-7a1a4e7d2c6d>

Research fellow in Mathematics.

The fellowship is within the area of differential geometry/pseudo-Riemannian geometry, and is part of the project “Pseudo-Riemannian Geometry and polynomial curvature invariants: Classification, Characterisation and Applications”.

University of Stavanger (Norway).

Closing date: 16 March 2018.

<https://www.jobbnorge.no/en/available-jobs/job/146995>

Post-doctoral position in Mathematics.

A post-doctoral position is offered at the project “Algebraic Torus Action: Geometry and Combinatorics”.

University of Warsaw (Poland).

Closing date: 20 March 2018.

<http://atag.mimuw.edu.pl/postdoc.pdf>

PhD fellowship.

The aim of this project is to incorporate available data information in physical models of moving flexible structures, by making use of techniques based on differential geometry and in particular shape analysis on Lie groups and homogeneous manifolds.

Norwegian University of Science and Technology (Trondheim, Norway).

Closing date: 26 March 2018.

<https://www.jobbnorge.no/ledige-stillinger/s-tilling/148547>

Post-doctoral position.

One post-doctoral position is available at the Group of Statistical Mechanics of the São Carlos Institute of Physics. This position, funded by the São Paulo Research Foundation – FAPESP, is linked to the project “Quantum Spin Chain”, coordinated by Francisco C. Alcaraz.

Institute of Physics, University of São Paulo, Brazil.

Closing date: 31 March 2018.

<http://fapesp.br/opportunidades/cadeias-quanticas-de-spins/1937/>

Postdoctoral research associate.

The focus of the research is to understand the effects of geometry on various biological processes, including pattern morphogenesis, population growth, and spatial evolutionary dynamics.

University of Tennessee (United States).

Closing date: Open until filled.

https://ut.taleo.net/careersection/ut_system/jobdetail.ftl?lang=en&job=17000001SS

Postdoctoral fellow in Pure Mathematics.

Up to six positions in different areas, such as algebraic geometry, differential geometry or partial differential equations.

ShanghaiTech University (Shanghai, China).

Closing date: Open until filled.

<http://jobs.shanghaitech.edu.cn/job.asp?id=733>

Research associate.

Position in the Department of Mathematical Sciences.

University of Texas at Dallas (Texas, United States).

Closing date: Open until filled.

<https://jobs.utdallas.edu/postings/9515>

Humboldt research fellowship for postdoctoral researchers.

6-24 month research programs.

Alexander von Humboldt Foundation.

Closing date: Open.

<https://www.humboldt-foundation.de/web/humboldt-fellowship-postdoc.html>

Lisa Meitner program.

FWF Austrian Science Fund.

Vienna (Austria).

Closing date: Open.

<https://www.fwf.ac.at/en/research-funding/application/>

Funded postdoctoral fellowship.

Department of Mathematics and Statistics.
University of Reading.

Closing date: Open.

<https://www.reading.ac.uk/maths-and-stats/JobsAndFellowships/maths-fellowships.aspx>

Research associates (postdocs) in Mathematics (Geometry).

Specific areas of relevant research include rep-

resentations of surface or hyperbolic groups, Hitchin or Anosov representations, classical and higher Teichmüller theory, geometric structures on low-dimensional manifolds, combinatorial geometry in relation with moduli type spaces and the geometry of the mapping class group.
University of Luxembourg (Luxembourg).

Closing date: Open until filled.

<http://recruitment.uni.lu/en/details.html?nPostingTargetID=13059>

Offers for researchers**Associate lecturer/lecturer in Mathematics.**

School of Mathematics and Applied Statistics.
University of Wollongong (Australia).

Closing date: 4 March 2018.

<https://jobs.uow.edu.au/careersection/ext/jobdetail.ftl?job=171586&tz=GMT%2B11%3A00>

Full professor of Applied Analysis.

Faculty of Science.
Radboud University (Nijmegen, Netherlands).

Closing date: 14 March 2018.

http://www.ru.nl/werken/details/details_vacature_0/?recid=599983

Herchel Smith professorship of Pure Mathematics.

Department of Pure Mathematics and Mathematical Statistics.
University of Cambridge (United Kingdom).

Closing date: 15 March 2018.

<http://www.jobs.cam.ac.uk/job/16514>

Lecturer in Mathematics.

Department of Mathematical Sciences.
University of Bath (United Kingdom).

Closing date: 4 April 2018.

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=AP5607>

Assistant Professor - Math.

Department of Mathematics and Statistics.
University of North Carolina Wilmington (North Carolina, United States).

Closing date: Open until filled.

<https://jobs.uncw.edu/postings/10513>

Tenure-track assistant professor.

Department of Mathematics.
Drexel University (Philadelphia, Pennsylvania, United States).

Closing date: Open until filled.

www.drexeljobs.com/applicants/Central?quickFind=83104

Assistant professor - Pure Mathematics.

Mathematics Department.
Syracuse University (New York, United States).

Closing date: Open until filled.

<https://www.sujobopps.com/postings/71926>

Research professor in Computational Fluid Dynamics.

Basque Centre for Applied Mathematics.
Bilbao (Spain).

Closing date: Open until filled.

<http://www.ikerbasque.net/es/convocatorias/research-professors-en-bcam>

Assistant professor in Geometry.

Department of Mathematics.
University of Kansas (United States).

Closing date: Open until filled.

<https://employment.ku.edu/assistant-professor-geometry/10039br>

Assistant professor in Mathematics.

Department of Mathematics.
Embry-Riddle Aeronautical University (Prescott, Arizona, United States).

Closing date: Open until filled.

<https://embryriddle.taleo.net/careersection/002/jobdetail.ftl?job=180037>

Offers for visiting researchers

SAMSI visiting research fellows.

SAMSI invites applications from junior and senior researchers for its current and upcoming year-long research programs.

Visiting Research Fellows can visit SAMSI for periods up to nine months in association with one of the year-long research programs. A limited amount of financial support is available to reimburse receipted expenses for accommodation and transportation. Please note that a Visiting Research Fellow must remain employed at his/her home institution. All fellows are provided with office space and have access to SAMSI's facilities.

Closing date: Open.

<https://www.samsi.info/participating/visiting-research-fellows/>

Visiting researchers at AIMS.

African Institute for Mathematical Sciences.

Interested researchers may apply to visit for short (2-week) or longer periods. Research fellows may conduct their own research at AIMS, participate in the teaching programmes and give talks in the journal club. Visits to local universities can be arranged.

Closing date: Open.

<https://www.aims.ac.za/en/research-centre/fellowships>

Research in pairs in the Mathematisches Forschungsinstitut Oberwolfach.

Mathematisches Forschungsinstitut Oberwolfach. Oberwolfach, Germany.

2-4 people on research stay between 2 weeks and 3 months. Required: not all participants coming from the same place. The Institute will provide office space, full board and lodging. Travel expenses can be reimbursed only in exceptional cases.

Closing date: Applications must be sent 6 months before planned stay.

<http://www.mfo.de/for-guest-researchers/apply-for-a-stay/apply-for-research-in-pairs>

Propose a mini-workshop in the Mathematisches Forschungsinstitut Oberwolfach.

Mathematisches Forschungsinstitut Oberwolfach. Oberwolfach, Germany.

15-20 people on a mini-workshop for a week. Arrival is on Sunday afternoon and departure is on Saturday morning or Friday evening. Participation in a Workshop is only possible by invitation of the Director, and on suggestion of the

organizers. The Institute offers accommodation free of charge. Travel expenses cannot be refunded (with the possible exception of special grants).

Closing date: The deadline is the end of July.

<https://www.mfo.de/scientific-programme/meetings/proposal-guidelines>

Focused research groups in Banff, Canada.

Banff International Research Station.

Banff, Alberta, Canada.

Up to 8 researchers from different institutions to live and work at the BIRS facility for periods of 1 to 2 weeks. Room and meals are provided for resident members. Two dedicated discussion rooms with computer work stations are provided for the use of the group. Proposals: Should detail the area of collaboration, list the team members and their institutions, and justify the case for using BIRS.

Closing date: No precise deadline: a minimum of 4 months before the proposed start of the event.

<http://www.birs.ca/programs/general-program-descriptions>

Research in Teams in Banff, Canada.

Banff International Research Station.

Banff, Alberta, Canada.

The Research in Teams program offers teams of 2 to 4 researchers the opportunity to live and work at the BIRS facility for periods of 1 to 2 weeks, in order to concentrate on their research or to finish major projects.

Closing date: No precise deadline: a minimum of 4 months before the proposed start of the event.

<http://www.birs.ca/programs/general-program-descriptions>

Visiting the ICMAT.

Instituto de Ciencias Matemáticas.

Madrid, Spain.

Host for researchers for a period 1 to 12 months, preferably having a research plan and a scientific connection with ICMAT researchers. Visitors will be provided with office space, working facilities and house-finding assistance. No financial support will be provided for these visits. Resolution no later than one month after submission.

Closing date: 2 months before the start of the desired stay.

<http://www.icmat.es/people/visitFac>

Research in pairs program: Centro Internazionale per la Ricerca Matematica.

Fondazione Bruno Kessler.

Trento University, Trento, Italy.

2-3 people from Universities located in different towns, who intend to work on a definite research project from 1 to 6 weeks). Applicant partners must submit a scientific project in the field of mathematics resulting in one or more scientific publications on journals of excellent mathematical level; Participants in the RIP Program will also give occasional research seminar talks at the CIRM or at the University of Trento. Applications where one or more of the partners are Italians will of course be welcome.

Closing date: Applications may be sent any time.

<http://cirm.fbk.eu/research-pairs>

Visiting scholar opportunity in Cambridge.

University of Cambridge.

Cambridge, UK.

Visiting scholars, fellows, associates from other institutions for development of research, teaching and collaboration.

Closing date: Necessary to contact one member of the academic staff to host your visit. Please allow time for your request to be considered.

<https://www.educ.cam.ac.uk/about/visiting-scholars/>

Visiting the CRM.

Centre de Recerca Matemàtica.

Catalonia, Spain.

Host for researchers from at least months, having a research plan and a scientific connection with long-term CRM visitors or researchers based at a university in Catalonia. Researchers from Catalan universities can apply if they are free from teaching duties during the period of their stay at the CRM. Visitors will be provided with working facilities and house-finding assistance. Support for housing expenses can be requested. Visits

should be carried out during the academic year (from September to July). Resolutions no later than three months after submission.

Closing date: Applications can be submitted any time between 6 and 12 months before the start of the desired stay.

<http://www.crm.cat/en/Host/VisitingCRM/Pages/ResearchPairs.aspx>

Simon's fellows in Mathematics.

Simon's Foundation.

New York City, USA.

The Simons Foundations Mathematics and Physical Sciences division invites applications for the Simons Fellows in Mathematics program, which enables research leaves by providing time away from classroom teaching and academic administration.

Closing date: Open.

<https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/simons-fellow-program/simons-fellows-in-mathematics-program-description/>

Visit the Institute of Mathematical Sciences, India.

The mathematics group at IMSc actively seeks to organize visits by research mathematicians from all over the world.

Such visits typically center around a set of formal lectures. Durations of such visits range from days to a semester or more.

Closing date: Open.

https://www.imsc.res.in/visiting_mathematics

Visiting research fellow in Kent State University.

Mathematics Department-KSU Ohio.

Visiting researchers at KSU.

Closing date: Open.

<http://www.kent.edu/globaleducation/visiting-scholars>

Awards

Andre Aisenstadt prize.

The Centre de Recherches Mathematiques (CRM) solicits nominations for the Andr Aisenstadt Mathematics Prize, awarded to recognize talented young Canadian mathematicians.

Closing date: March 2018.

http://www.ams.org/opportunities/view/listing?listing_id=491577

Humphreys Award.

Award for mentorship of undergraduate women in Mathematics

Closing date: April 30, Year N for the Year N+1 Award.

<https://sites.google.com/site/awmmath/programs/humphreys-award>

CRM-Fields-PIMS prize.

The Centre de recherches mathématiques (CRM), the Fields Institute, and the Pacific Institute for the Mathematical Sciences (PIMS) invite nominations for the joint CRM-Fields-PIMS prize, awarded in recognition of exceptional research achievement in the mathematical sciences. The candidate's research should have been conducted primarily in Canada or in affiliation with a Canadian university.

Closing date: 1 November 2018.

http://www.crm.umontreal.ca/prix/prixCRMFieldsPIMS/prix_CFP_an.shtml

Abdus Salam Medal.

The world Academy of Science of developing countries

Closing date: No precise deadline.

<http://twas.org/opportunity/abdus-salam-medal>

Ruth Lyttle Satter Prize in Mathematics.

The Satter Prize recognizes an outstanding contribution to mathematics research by a woman in the previous six years.

Closing date: Open nominations for 2019.

<http://www.ams.org/profession/prizes-awards/ams-prizes/satter-prize>

Financial support for research projects and conferences

Financial support for workshop organization.

Banff International Research Station.

Deadline: No precise deadline but notification with months in advance.

<http://www.birs.ca/programs/general-program-descriptions>

Propose a workshop in the Mathematisches Forschungsinstitut Oberwolfach.

Mathematisches Forschungsinstitut Oberwolfach, Germany.

Deadline: Open.

<https://www.mfo.de/scientific-programme/meetings/workshop>

The Royal Society Grants.

Fund about 1500 researchers, including approximately 600 research fellows, through grant schemes.

Deadline: No precise deadline.

<https://royalsociety.org/grants/>

International Mathematical Union-Conference support program.

Commission for developing countries. This program gives partial support (max. EURO 3,500) to conferences in the mathematical sciences. The funds are for academic use only (travel or living

expenses of invited speakers or participants coming from developing countries.

Deadline: Every 2–3 months: 1st November, 1st February, 1st April.

<http://www.mathunion.org/cdc/grants/conference-support-program/>

Hosting a workshop at AIMS South Africa.

AIMS South Africa will make a contribution to the cost of the workshop provided that funding is available, and that the workshop falls within one of its research focus areas.

Deadline: No precise deadline.

<https://www.aims.ac.za/en/research-centre/workshops-conferences/hosting-a-workshop-at-aims>

Mathematical and physical sciences funding.

National Science Foundation.

Deadline: No precise deadline.

https://www.nsf.gov/funding/pgm_list.jsp?org=MPS

Financial support from CICS.

Center for International Cooperation in Science.

Deadline: Several calls.

<http://www.cics.tn.nic.in/>

Interesting news and publications

Journal of Geometric Mechanics (JGM).

Volume 10, Issue 1, 2018.

<http://aimsciences.org/journal/1941-4889/2018/10/1>

IMU-Net 87.

January 2018.

<https://www.mathunion.org/imu-net/archive/2018/imu-net-087>

ICMAT Newsletter.

16th number. First quarter 2018.

<https://www.icmat.es/outreach/newsletter/num16>

New AIMS Journal.

New open access journal.

<http://www.aimspress.com/journal/Math>

The GMC network.

International, spanish based network focused on Geometry, Mechanics and Control.

<http://gmcnet.webs.ull.es/>

Reports@SCM.

Reports@SCM is a non-profit electronic research journal on Mathematics published by the Societat Catalana de Matemàtiques (SCM) which originated from the desire of helping students and young researchers in their first steps into the world of research publication.

<http://revistes.iec.cat/index.php/reports/>

Jobs for Mathematicians.

<https://www.mathjobs.org/jobs>

Red de organización latinoamericana de Matemáticas.

<http://www.colmatelat.ehu.es/>

Revistas matemáticas españolas.

http://www.rsme.es/component/option,com_weblinks/catid,51/Itemid,23/

Centro Internacional de Matemáticas puras y aplicadas.

<https://www.cimpa.info/>

El árbol de las matemáticas.

Galería RSME-UNIVERSIA de matemáticas, ciencia y tecnología.

<http://www.arbolmat.com/>

List of mathematical journals.

http://www.rsme.es/component/option,com_weblinks/catid,49/Itemid,23/

Women and Mathematics.

<http://mym.rsme.es/>

Academic positions in Spain, France and Belgium.

Mathematics and Physics related areas.

<http://postes.smai.emath.fr/postdoc/>

Mathematics in Europe.

<http://www.mathematics-in-europe.eu/>

Matemáticas y sus fronteras.

<http://www.madrimasd.org/blogs/matematicas/>

Mathematics and Neuroscience.

<http://corbifoundation.org/>

Online textbooks: MIT Open courseware.

<https://ocw.mit.edu/courses/online-textbooks/>

Free online courses in Mathematics.

Free online courses of reputable North American Universities.

https://www.edx.org/course?search_query=mathematics

Search of academic jobs in Mathematics in Europe.

Look for PhD, post doc positions, research assistant, etc.

<http://academicpositions.eu/>

Search of academic jobs in Mathematics in the UK.

Look for PhD, post doc positions, research assistant, etc.

<http://www.jobs.ac.uk/categories/postdoc-jobs>

Search of academic jobs in Mathematics worldwide.

Look for PhD, post doc positions, research assistant, etc.

<http://www.findapostdoc.com/>

Search of academic jobs in Mathematics worldwide.

Look for PhD, post doc positions, research assistant, etc.

<https://www.postdocjobs.com/>

Search of academic jobs in Mathematics in Spain.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships.

<http://www.madrimasd.org/madrid-ciencia-tecnologia/convocatorias>

Search of academic jobs in Mathematics.

Look for PhD, post doc positions, research assistant, vacant jobs, lectureships.

<http://www.indeed.com/q-Postdoctoral-jobs.html>

Advice for New Ph.D.'s.

<http://www.ams.org/profession/career-info/new-phds/new-phds>

The American Mathematical Society bookstore.

<http://www.ams.org/bookstore/whatsnew>

Network's members preprints and papers

Leonardo Colombo and Dimos Dimarogonas: *Variational Principles for Optimal Control of Left-Invariant Multi-Agent Systems with Asymmetric Formation Constraints.*

1802.01224

[math.OC, cs.MA, cs.SY, math.DS]

Francisco Martín Cabrera: *The exterior derivative of the Lee form of almost Hermitian manifolds.*

1802.07970

[math.DG]

Francisco Martín Cabrera: *On the classification of almost contact metric manifolds.*

1802.08017

[math.DG]

Daniel M. Kane, Joseph Palmer and Álvaro Pelayo: *Classifying Toric and Semitoric Fans by Lifting Equations from $SL_2(\mathbb{Z})$.*

1502.07698 (version 6)

[math.SG, math.AG, math.DG, math.GR]

Alberto Enciso, M. Ángeles García-Ferrero and Daniel Peralta-Salas: *Minimal surfaces with micro-oscillations.*

1602.04978 (version 2)

[math.DG, math.AP]

Mohammad Javad Khojasteh, Pavankumar Tallapragada, Jorge Cortés and Massimo Franceschetti: *The value of timing information in event-triggered control.*

1609.09594 (version 3)

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

A. V. Borisov, L. C. García-Naranjo, I. S. Mamaev and J. Montaldi: *Reduction and relative equilibria for the 2-body problem in spaces of constant curvature.*

1708.04610 (version 2)

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

Eva Miranda and Geoffrey Scott: *The geometry of E-manifolds.*

1802.02959

[math.SG]

Romero Solha: *Gauss–Bonnet theorem for compact and orientable surfaces: a proof without using triangulations.*

1709.09040 (version 2)

[math.DG, math.CV]

V. M. Jiménez, M. de León and M. Epstein: *Characteristic distribution: An application to material bodies.*

1711.09022 (version 2)

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

Anthony Bloch, Leonardo Colombo and Fernando Jiménez: *The variational discretization of the constrained higher-order Lagrange–Poincaré equations.*

1801.00577

[math.DS, cs.DM, cs.SY, math.NA, math.OC]

Mohammad Javad Khojasteh, Mojtaba Hedayatpour, Jorge Cortés and Massimo Franceschetti: *Event-triggered stabilization of disturbed linear systems over digital channels.*

1801.08704

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

William Clark, Anthony Bloch and Leonardo Colombo: *Poincaré–Bendixson Theorem for Hybrid Systems.*

1801.09014

[math.DS, cs.SY, math.OC, nlin.CD]

Network's collaborators preprints and papers

Ángel Ferrández, Antonio M. Naveira and Ana D. Tarrío: *Geometry of extended Bianchi–Cartan–Vranceanu spaces.*

1802.00106

[math.DG]

Benedetto Piccoli, Nastassia Pouradier Duteil and Emmanuel Trélat: *Sparse control of Hegselmann–Krause models: Black hole and declustering.*

1802.00615

[math.OC]

François Gay-Balmaz and Cesare Tronci: *The Hamiltonian setting of Koopman–von Neumann theory and the dynamics of hybrid classical–quantum systems.*

1802.04787

[math-ph, math.MP, physics.chem-ph, quant-ph]

Manuel Asorey, Lesław Rachwał and Ilya Shapiro:
Unitarity issues in higher derivative field theories.
1802.01036
[hep-th, gr-qc, math-ph, math.MP]

Linus Kramer, Peter Kramer and Vladimir Man'ko:
A new product on 2×2 matrices.
1802.03048
[math-ph, math.MP, math.RT]

Jaime Muñoz Masqué and Luis Miguel Pozo Coronado:
The Classification Problem for 2-Forms in Four Variables.
1802.03196
[math.DG]

M. Asorey, A. P. Balachandran, F. Lizzi and G. Marmo:
Entangled Scent of a Charge.
1802.03922
[hep-th, gr-qc, math-ph, math.MP]

Héctor Barge, Antonio Giraldo and José M. R. Sanjurjo:
Bifurcations, robustness and shape theory of attractors of discrete dynamical systems.
1802.05454
[math.DS]

David Gómez-Ullate, Yves Grandati and Robert Milson:
Shape invariance and equivalence relations for pseudowronskians of Laguerre and Jacobi polynomials.
1802.05460
[math.CA, math-ph, math.MP, nlin.SI]

Luis Hernández-Corbato, Lucía Martín-Merchán and Francisco Presas:
Tight neighborhoods of contact submanifolds.
1802.07006
[math.SG]

Vincent Colin, Francisco Presas and Thomas Vogel:
Notes On Open Book Decompositions For Engel Structures.
1802.07639
[math.SG]

Marta Aparicio-Arroyo, Steven Bradlow, Brian Collier, Oscar García-Prada, Peter Gothen and

André Oliveira: *$SO(p,q)$ -Higgs bundles and higher Teichmüller components.*
1802.08093
[math.AG, math.DG, math.GT]

E. Celeghini, M. Gadella and M. A. del Olmo:
Spherical harmonics and rigged Hilbert spaces.
1802.08497
[math-ph, math.MP]

Jerrold E. Marsden, Hong Wang and Zhen-Xing Zhang:
Regular Reduction of Controlled Hamiltonian System with Symplectic Structure and Symmetry.
1202.3564 (version 3)
[math.SG, math.DS]

Fabiano G. B. Brito, Icaro Gonçalves and Adriana V. Nicoli:
A topological lower bound for the energy of a unit vector field on a closed Euclidean hypersurface.
1703.03263 (version 3)
[math.DG]

Yamile Godoy and Marcos Salvai:
Polar factorization of conformal and projective maps of the sphere in the sense of optimal mass transport.
1704.05771 (version 2)
[math.DG, math.AP, math.OC]

Nguyen Tien Zung:
A conceptual approach to the problem of action-angle variables.
1706.08859 (version 2)
[math.DS, math-ph, math.DG, math.MP, math.SG]

Alberto S. Cattaneo and Michele Schiavina:
BV-BFV approach to General Relativity: Palatini-Cartan-Holst action.
1707.06328 (version 2)
[math-ph, gr-qc, hep-th, math.MP, math.SG]

Decio Levi, Miguel Ángel Rodríguez and Zora Thomova:
Differential equations invariant under conditional symmetries.
1708.03302 (version 3)
[math-ph, math.MP]

Other Conferences

60 Years Alberto Ibort Fest. Classical and Quantum Physics: Geometry, Dynamics and Control.

5–9 March 2018, ICMAT, Madrid, Spain.

<https://www.icmat.es/congresos/2018/IBORT-FEST/>

Introduction to Nonlinear Systems and Control.

5–9 March 2018, Paris, France.

http://www.web-events.net/doc/users/395/bib/eeci-igsc-2018-summaries-19-07-2017_1091.pdf

The Eleventh Dynamical Systems, Mathematical, Physical Sciences, and Engineering Applications.

28–30 March 2018, Bali, Indonesia.

<https://sites.google.com/site/profakcahaydar/brief-cv/conferences-1>

Geometry Festival 2018.

6–8 April 2018, Philadelphia, USA.

<https://hans.math.upenn.edu/geomfest2018/index.html>

Eastern Illinois Integrated Conference in Geometry, Dynamics, and Topology.

6–8 April 2018, Illinois, USA.

<https://ux1.eiu.edu/~gdt/2018.html>

Workshop on Noncommutative Geometry and Physics: Hopf Algebras and Noncommutative Geometry.

20–24 April 2018, Bayrischzell, Germany.

<http://hep.itp.tuwien.ac.at/~miw/bzell2018/>

International Conference on Frontiers in Industrial and Applied Mathematics.

26–27 April 2018, NIT Hamirpur (H.P.), India.

<http://fiam2017.com/>

Stochastic Control, Computational Methods, and Applications.

7–11 May 2018, Minneapolis, MN.

<https://www.ima.umn.edu/2017-2018.5/W5.7-11.18>

International Conference on Mathematics and Mechanics 2018.

15–16 May 2018, Vienna, Austria.

<http://mathematics.conference-site.com/index.html>

XX Geometrical Seminar.

20–23 May 2018, Vrnjaka Banja, Serbia.

<http://euro-math-soc.eu/event/sun-20-may-18-1645/xx-geometrical-seminar>

GAP XVI Timisoara "Lie theory and applications to mathematical physics".

29 May–2 June 2018, The West University of Timisoara, Timisoara, Romania.

<http://www.geometryandphysics.org/gapxvi/?i=1>

XXth International Conference on Geometry, Integrability, and Quantization.

2–7 June 2018, near Varna, Bulgaria.

<http://www.bio21.bas.bg/conference/>

Summer School on "Derived and Higher Structures in Geometry and Physics" SMS 2018.

11–22 June 2018, Toronto, Canada.

<http://www.fields.utoronto.ca/activities/17-18/sms-2018>

10th Workshop "Structural Dynamical Systems: Computational Aspects.

12–15 June 2018, Capitulo - Monopoli (BA), Italy.

<https://sites.google.com/site/workshopsds2018/>

The 20th European Conference on Mathematics for Industry.

18–22 June 2018, Budapest, Hungary.

<http://ecmi.bolyai.hu/>

International Conference on Emerging Trends in Applied Mathematics and Mechanics 2018.

18–22 June 2018, Jagiellonian University, Krakow, Poland.

<https://sites.google.com/view/etamm2/home>

SGP VII School on Geometry and Physics.

25–29 June 2018, Biaowiea, Poland.

<http://wgmp.uwb.edu.pl/>

WGMP XXXVII Workshop on Geometric Methods in Physics.

1–7 July 2018, Biaowiea, Poland.

<http://wgmp.uwb.edu.pl/>

12th International ICMAT Summer School on Geometry, Mechanics and Control.

2–6 July, 2018. Santiago de Compostela, Spain.

<http://gmcnet.webs.ull.es/?q=activity-detail1/1927>

The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications.

5–9 July 2018, National Taiwan University, Taipei, Taiwan.

<http://aimsociences.org/conferences/2018/>

SIAM Conference on Mathematical Aspects of Materials Science.

9–13 July 2018, Portland, United States.

<http://www.siam.org/meetings/ms18/>

The Sixth International Conference on Control and Optimization with Industrial Applications.

11–13 July 2018, Baku, Azerbaijan.

<http://coia-conf.org/en/>

Non-Hermitian Quantum Mechanics and Symplectic Geometry.

16–20 July 2018, San José, California, USA.

<https://aimath.org/workshops/upcoming/nhquantumsymp/>

CBMS-NSF Conference: Computational Methods in Optimal Control.

23–27 July 2018, Jackson, Mississippi.

<http://www.siue.edu/~juliu/cbms18/>

Modern Trends in Differential Geometry.

23–27 July 2018, São Paulo, Brazil.

<https://www.ime.usp.br/~mtg/index.html>

Summer Graduate School: From Symplectic Geometry to Chaos.

23 July–3 August 2018, Berkeley, California, USA.

http://www.msri.org/summer_schools/825

International Congress of Mathematicians.

1–9 August 2018, Rio de Janeiro, Brazil.

<http://www.icm2018.org/portal/en/home/>

Hamiltonian Systems, from Topology to Applications through Analysis.

13 August–14 December 2018.

<http://www.msri.org/programs/305>

VI Iberoamerican Meeting on Geometry, Mechanics and Control.

13–17 August 2018, Guanajuato, Mexico.

<http://gmc.eventos.cimat.mx/node/760>

INdAM Workshop on Poisson Geometry and Higher Structures.

10–14 September 2018, Rome, Italy.

<http://www1.mat.uniroma1.it/ricerca/convegni/2018/hippo2018/>

SIAM Conference on Mathematics of Planet Earth.

13–15 September 2018, Philadelphia, USA.

<http://www.siam.org/meetings/mpe18/>

DS19 SIAM Conference on Applications of Dynamical Systems.

19–23 May 2019, Snowbird, Utah, USA.

<http://www.siam.org/meetings/calendar.php>

8th European Congress of Mathematics.

5–11 July 2020, Portoroz, Slovenia.

<http://www.8ecm.si/>

NOTE: If you want to include information in this info-sheet, please send it to gmcnet@ull.es