

Publications 2022

de l'Institut de Mathématiques de Bourgogne

Articles de revues

1. Agrebaoui Boujemaâ, Arnal Didier, Khelifi Olfa. (2022). Diamond Cone for $sl(m,n)$. *Annals of Combinatorics*, 26(2). URL: <https://link.springer.com/article/10.1007/s00026-021-00540-9>. DOI: <https://doi.org/10.1007/s00026-021-00540-9>. Réf. HAL: [hal-03927660](https://hal.archives-ouvertes.fr/hal-03927660) - [OA hors HAL](#)
2. Alanís-López L., Artal E., Bonatti Christian, Gómez-Mont X., González Villa M., Portilla Cuadrado P. (2022). On a quadratic form associated with a surface automorphism and its applications to Singularity Theory. *Indagationes Mathematicae*, 33(4). DOI: <https://doi.org/10.1016/j.indag.2022.02.007>. Réf. HAL: [hal-03865067](https://hal.archives-ouvertes.fr/hal-03865067) - [OA hors HAL](#)
3. An Duong Thi Viet, Jourani Abderrahim. (2022). Subdifferentials of the Marginal Functions in Parametric Convex Optimization via Intersection Formulas. *Journal of Optimization Theory and Applications*, 192(1). URL: <https://link.springer.com/article/10.1007%2Fs10957-021-01952-6#citeas>. DOI: <https://doi.org/10.1007/s10957-021-01952-6>. Réf. HAL: [hal-03448368](https://hal.archives-ouvertes.fr/hal-03448368) - [OA HAL](#)
4. Arnold Anton, Klein Christian, Ujvari Bernhard. (2022). WKB-method for the 1D Schrödinger equation in the semi-classical limit: enhanced phase treatment. *BIT Numerical Mathematics*, 62. URL: <https://link.springer.com/article/10.1007%2Fs10543-021-00868-x>. DOI: <https://doi.org/10.1007/s10543-021-00868-x>. Réf. HAL: [hal-03301359](https://hal.archives-ouvertes.fr/hal-03301359) - [OA hors HAL](#)
5. Attouch Hedy, Balhaf Aïcha, Chbani Zaki, Riahi Hassan. (2022). Damped inertial dynamics with vanishing Tikhonov regularization: Strong asymptotic convergence towards the minimum norm solution. *Journal of Differential Equations*, 311. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0022039621007634>. DOI: <https://doi.org/10.1016/j.jde.2021.12.005>. Réf. HAL: [hal-03552053](https://hal.archives-ouvertes.fr/hal-03552053) - [OA hors HAL](#)
6. Bakir Toufik, Bonnard Bernard, Gayraud Sandrine, Rouot Jérémy. (2022). Finite Dimensional Approximation to Muscular Response in Force-Fatigue Dynamics using Functional Electrical Stimulation. *Automatica*. DOI: <https://doi.org/10.1016/j.automatica.2022.110464>. Réf. HAL: [hal-03154450](https://hal.archives-ouvertes.fr/hal-03154450) - [OA HAL](#)
7. Bao Jiakang, He Yang-Hui, Zahabi Ali. (2022). Crystal melting, BPS quivers and plethystics. *Journal of High Energy Physics*, 2022(6). URL:

[https://link.springer.com/article/10.1007/JHEP06\(2022\)016](https://link.springer.com/article/10.1007/JHEP06(2022)016). DOI:
[https://doi.org/10.1007/JHEP06\(2022\)016](https://doi.org/10.1007/JHEP06(2022)016). Réf. HAL: [hal-03897992](https://hal.archives-ouvertes.fr/hal-03897992) - [OA hors HAL](#)

8. [Barbara Abdessamad](#), [Jourani Abderrahim](#). (2022). Error bound characterizations of the conical constraint qualification in convex programming. *SIAM Journal on Optimization*, 32(3). URL: <https://epubs.siam.org/doi/10.1137/21M1428674>. DOI: <https://doi.org/10.1137/21M1428674>. Réf. HAL: [hal-03225245](https://hal.archives-ouvertes.fr/hal-03225245) - [OA HAL](#)

9. [Barbara Abdessamad](#). (2022). An affine scaling method using a class of differential barrier functions: primal approach. *Optimization*, 71(6). URL: <https://www.tandfonline.com/doi/abs/10.1080/02331934.2020.1812606?journalCode=gopt20>. DOI: <https://doi.org/10.1080/02331934.2020.1812606>. Réf. HAL: [hal-03035872](https://hal.archives-ouvertes.fr/hal-03035872)

10. [Bellingeri Paolo](#), [Paris Luis](#), [Thiel Anne-Laure](#). (2022). Virtual Artin groups. *Proceedings of the London Mathematical Society*. URL: <https://londmathsoc.onlinelibrary.wiley.com/doi/10.1112/plms.12491>. DOI: <https://doi.org/10.1112/plms.12491>. Réf. HAL: [hal-03898854](https://hal.archives-ouvertes.fr/hal-03898854)

11. [Benedetti Vladimiro](#), [Manivel Laurent](#). (2022). On the automorphisms of hyperplane sections of generalized Grassmannians. *Transformation Groups*. URL: <https://link.springer.com/article/10.1007/s00031-022-09757-1>. DOI: <https://doi.org/10.1007/s00031-022-09757-1>. Réf. HAL: [hal-03360605](https://hal.archives-ouvertes.fr/hal-03360605) - [OA HAL](#)

12. [Bertrand Quentin](#), [Klopfenstein Quentin](#), [Massias Mathurin](#), [Blondel Mathieu](#), [Vaïter Samuel](#), [Gramfort Alexandre](#), [Salmon Joseph](#). (2022). Implicit differentiation for fast hyperparameter selection in non-smooth convex learning. *Journal of Machine Learning Research*, 23(149). URL: <https://www.jmlr.org/papers/v23/21-0486.html>. Réf. HAL: [hal-03228663](https://hal.archives-ouvertes.fr/hal-03228663) - [OA HAL](#)

13. [Bitseki Penda Siméon Valère](#), [Delmas Jean-François](#). (2022). Central Limit Theorem for Kernel Estimator of Invariant Density in Bifurcating Markov Chains Models. *Journal of Theoretical Probability*. URL: <https://link.springer.com/article/10.1007/s10959-022-01205-w#citeas>. DOI: <https://doi.org/10.1007/s10959-022-01205-w>. Réf. HAL: [hal-03927687](https://hal.archives-ouvertes.fr/hal-03927687) - [OA hors HAL](#)

14. [Bitseki Penda Siméon Valère](#), [Delmas Jean-François](#). (2022). Central limit theorem for bifurcating Markov chains under pointwise ergodic conditions. *Annals of Applied Probability*, 32(5). URL: <https://projecteuclid.org/journals/annals-of-applied-probability/volume-32/issue-5/Central-limit-theorem-for-bifurcating-Markov-chains-under-pointwise-ergodic/10.1214/21-AAP1774.short>. DOI: <https://doi.org/10.1214/21-AAP1774>. Réf. HAL: [hal-03927699](https://hal.archives-ouvertes.fr/hal-03927699) - [OA hors HAL](#)

15. [Bitseki Penda Siméon Valère](#), [Delmas Jean-François](#). (2022). Central limit theorem for bifurcating markov chains under L^2 -ergodic conditions. *Advances in Applied Probability*, 54(4). URL: <https://www.cambridge.org/core/journals/advances-in-applied-probability/article/abs/central-limit-theorem-for-bifurcating-markov-chains-under-l2ergodic-conditions/4446AF23ADD9CB626DFFB29C4DA2CBD3>. DOI: <https://doi.org/10.1017/apr.2022.3>. Réf. HAL: [hal-03927726](https://hal.archives-ouvertes.fr/hal-03927726) - [OA hors HAL](#)

16. Bitseki Penda Siméon Valère, Gackou Gorgui. (2022). Moderate deviation principles for bifurcating Markov chains: case of functions dependent of one variable. *ALEA : Latin American Journal of Probability and Mathematical Statistics*, 19(1). URL: https://alea.impa.br/english/index_v19.htm. DOI: <https://doi.org/10.30757/ALEA.v19-24>. Réf. HAL: [hal-03927705](https://hal.archives-ouvertes.fr/hal-03927705) - [OA hors HAL](#)
17. Blasco-García Rubén, Paris Luis. (2022). On the isomorphism problem for even Artin groups. *Journal of Algebra*, 607. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0021869320302891>. DOI: <https://doi.org/10.1016/j.jalgebra.2020.05.025>. Réf. HAL: [hal-03895913](https://hal.archives-ouvertes.fr/hal-03895913) - [OA hors HAL](#)
18. Bonatti Christian, Iakovoglou Ioannis. (2022). Anosov flows on 3-manifolds: the surgeries and the foliations. *Ergodic Theory and Dynamical Systems*, p.1-60. URL: <https://www.cambridge.org/core/journals/ergodic-theory-and-dynamical-systems/article/anosov-flows-on-3-manifolds-the-surgeries-and-the-foliations/CA6128E4F5A52C049F49D8F2C63127A7>. DOI: <https://doi.org/10.1017/etds.2021.170>. Réf. HAL: [hal-03909102](https://hal.archives-ouvertes.fr/hal-03909102) - [OA hors HAL](#)
19. Bonnard Bernard, Cots Olivier, Gergaud Joseph, Wembe Boris. (2022). Abnormal Geodesics in 2D-Zermelo Navigation Problems in the Case of Revolution and the Fan Shape of the Small Time Balls. *Systems and Control Letters*, 161. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0167691122000068>. DOI: <https://doi.org/10.1016/j.sysconle.2022.105140>. Réf. HAL: [hal-02437507](https://hal.archives-ouvertes.fr/hal-02437507) - [OA HAL](#)
20. Bonnard Bernard, Rouot Jérémy, Wembe Boris. (2022). Accessibility Properties of Abnormal Geodesics in Optimal Control Illustrated by Two Case Studies. *Mathematical Control and Related Fields*. DOI: <https://doi.org/10.3934/mcrf.2022052>. Réf. HAL: [hal-03310348](https://hal.archives-ouvertes.fr/hal-03310348) - [OA HAL](#)
21. Boralevi Ada, Faenzi Daniele, Lella Paolo. (2022). A construction of equivariant bundles on the space of symmetric forms. *Revista Matemática Iberoamericana*, 38(3). URL: <https://ems.press/journals/rmi/articles/3273558>. DOI: <https://doi.org/10.4171/RMI/1307>. Réf. HAL: [hal-03927466](https://hal.archives-ouvertes.fr/hal-03927466) - [OA hors HAL](#)
22. Brocherie Franck, De Laroche Lambert Quentin, Millet Grégoire. (2022). Multi-hosting UEFA European Football Championship: fair enough between participating teams? *Science and Medicine in Football*. URL: <https://www.tandfonline.com/doi/full/10.1080/24733938.2022.2072944>. DOI: <https://doi.org/10.1080/24733938.2022.2072944>. Réf. HAL: [hal-03817797](https://hal.archives-ouvertes.fr/hal-03817797) - [OA HAL](#)
23. Bulle Raphaël, Hale Jack, Lozinski Alexei, Bordas Stéphane P.a., Chouly Franz. (2022). Hierarchical a posteriori error estimation of Bank–Weiser type in the FEniCS Project. *Computers & Mathematics with Applications*, 131. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0898122122004722>. DOI: <https://doi.org/10.1016/j.camwa.2022.11.009>. Réf. HAL: [hal-03927594](https://hal.archives-ouvertes.fr/hal-03927594) - [OA hors HAL](#)
24. Bulois Michael, Moser-Jauslin Lucy, Terpereau Ronan. (2022). Real Structures on

- Nilpotent Orbit Closures. *Journal of Lie Theory*, 32(3). URL: <https://www.heldermann.de/JLT/JLT32/JLT323/jlt32038.htm>. Réf. HAL: [hal-03682134](https://hal.archives-ouvertes.fr/hal-03682134) - OA HAL
25. Buryak Alexandr, Iglesias Francisco Hernández, Shadrin Sergey. (2022). A conjectural formula for $DRg(a, -a)\lambda g$. *Épjournal de Géométrie Algébrique*, 6. URL: <https://epiga.episciences.org/9314>. DOI: <https://doi.org/10.46298/epiga.2022.8595>. Réf. HAL: [hal-03892167](https://hal.archives-ouvertes.fr/hal-03892167) - OA hors HAL
26. Caillau Jean-Baptiste, Fejoz Jacques, Orioux Michaël, Roussarie Robert. (2022). On singularities of minimum time control-affine systems. *SIAM Journal on Control and Optimization*, 60(2). URL: <https://epubs.siam.org/doi/10.1137/20M1366861>. DOI: <https://doi.org/10.1137/20M1366861>. Réf. HAL: [hal-01718345](https://hal.archives-ouvertes.fr/hal-01718345) - OA HAL
27. Calzola Elisa, Carlini Elisabetta, Dupuis Xavier, Silva Francisco (2022). A semi-Lagrangian scheme for Hamilton–Jacobi–Bellman equations with oblique derivatives boundary conditions. *Numerische Mathematik*. URL: <https://link.springer.com/article/10.1007/s00211-022-01336-6>. DOI: <https://doi.org/10.1007/s00211-022-01336-6>. Réf. HAL: [hal-03943780](https://hal.archives-ouvertes.fr/hal-03943780)
28. Cavicchi M, Déglise Frédéric, Nagel Johannes (2022). Motivic Decompositions of Families With Tate Fibers: Smooth and Singular Cases. *International Mathematics Research Notices*, rnac223. URL: <https://academic.oup.com/imrn/advance-article-abstract/doi/10.1093/imrn/rnac223/6674191?redirectedFrom=fulltext&login=true>. DOI: <https://doi.org/10.1093/imrn/rnac223>. Réf. HAL: [hal-03932937](https://hal.archives-ouvertes.fr/hal-03932937) - OA hors HAL
29. Chernyak Dmitry, Leurent Sébastien, Volin Dmytro. (2022). Completeness of Wronskian Bethe Equations for Rational $gl_m|n$ Spin Chains. *Communications in Mathematical Physics*, 391(3). URL: <https://link.springer.com/article/10.1007/s00220-021-04275-9>. DOI: <https://doi.org/10.1007/s00220-021-04275-9>. Réf. HAL: [hal-02550171](https://hal.archives-ouvertes.fr/hal-02550171) - OA hors HAL
30. Chouly Franz, Hild Patrick, Lleras Vanessa, Renard Yves. (2022). Nitsche method for contact with Coulomb friction: Existence results for the static and dynamic finite element formulations. *Journal of Computational and Applied Mathematics*, 416. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0377042722002746?via%3Dihub>. DOI: <https://doi.org/10.1016/j.cam.2022.114557>. Réf. HAL: [hal-03927542](https://hal.archives-ouvertes.fr/hal-03927542)
31. Chouly Franz, Hild Patrick. (2022). On a finite element approximation for the elastoplastic torsion problem. *Applied Mathematics Letters*, 132. URL: <https://www.sciencedirect.com/science/article/abs/pii/S089396592200163X>. DOI: <https://doi.org/10.1016/j.aml.2022.108191>. Réf. HAL: [hal-03927559](https://hal.archives-ouvertes.fr/hal-03927559)
32. Chouly Franz, Klein Pauline. (2022). Wave-heat coupling in one-dimensional unbounded domains: artificial boundary conditions and an optimized Schwarz method. *Numerical Algorithms*, 90(2). URL: <https://link.springer.com/article/10.1007%2Fs11075-021-01201-x>. DOI: <https://doi.org/10.1007/s11075-021-01201-x>. Réf. HAL: [hal-03468811](https://hal.archives-ouvertes.fr/hal-03468811) - OA hors HAL

33. Corrêa Maurício, Jardim Marcos, Muniz Alan. (2022). Moduli of distributions via singular schemes. *Mathematische Zeitschrift*, 301(3). URL: <https://link.springer.com/article/10.1007/s00209-022-03001-y>. DOI: <https://doi.org/10.1007/s00209-022-03001-y>. Réf. HAL: [hal-03887963](https://hal.archives-ouvertes.fr/hal-03887963) - [OA hors HAL](#)
34. Coutant Antonin, Achilleos Vassos, Richoux Olivier, Theocharis Georgios, Pagneux Vincent. (2022). Subwavelength Su-Schrieffer-Heeger topological modes in acoustic waveguides. *Journal of the Acoustical Society of America*, 151(6). URL: <https://asa.scitation.org/doi/10.1121/10.0011550>. DOI: <https://doi.org/10.1121/10.0011550>. Réf. HAL: [hal-03872867](https://hal.archives-ouvertes.fr/hal-03872867) - [OA HAL](#)
35. Crimaldi Irene, Louis Pierre-Yves, Minelli Ida Germana. (2022). An urn model with random multiple drawing and random addition. *Stochastic Processes and their Applications*. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0304414922000266>. DOI: <https://doi.org/10.1016/j.spa.2022.01.014>. Réf. HAL: [hal-03139434](https://hal.archives-ouvertes.fr/hal-03139434) - [OA hors HAL](#)
36. Cumplido María, Paris Luis. (2022). Commensurability in Artin groups of spherical type. *Revista Matemática Iberoamericana*, 38(2). URL: https://www.emis-ph.org/journals/show_abstract.php?issn=0213-2230&vol=38&iss=2&rank=3. DOI: <https://doi.org/10.4171/RMI/1282>. Réf. HAL: [hal-03660082](https://hal.archives-ouvertes.fr/hal-03660082) - [OA hors HAL](#)
37. Deltreil Guillaume, Tardivel Patrick, Graczyk Piotr, Escobar-Bach Mikael, Descatha Alexis. (2022). How to Use Biomechanical Job Exposure Matrices with Job History to Access Work Exposure for Musculoskeletal Disorders? Application of Mathematical Modeling in Severe Knee Pain in the Constances Cohort. *International Journal of Environmental Research and Public Health*, 19(23). DOI: <https://doi.org/10.3390/ijerph192316217>. Réf. HAL: [hal-03922766](https://hal.archives-ouvertes.fr/hal-03922766) - [OA HAL](#)
38. Detcherry Renaud, Kalfagianni Efstratia. (2022). Cosets of monodromies and quantum representations. *Indiana University Mathematics Journal*, 71(3). URL: <http://www.iujm.indiana.edu/oai/2022/71/8971/8971.xml>. DOI: <https://doi.org/10.1512/iumj.2022.71.8971>. Réf. HAL: [hal-03895077](https://hal.archives-ouvertes.fr/hal-03895077) - [OA hors HAL](#)
39. Digne François, Godelle Eddy, Hermiller Susan, Paris Luis (2022). Special issue in memory of Patrick Dehornoy. *Journal of Algebra*, 607 - part B, pp. 1-466. URL: <https://www.sciencedirect.com/journal/journal-of-algebra/vol/607/part/PB>. DOI: <https://doi.org/10.1016/j.jalgebra.2022.05.024>. Réf. HAL: [hal-03908415](https://hal.archives-ouvertes.fr/hal-03908415)
40. Do Valle Pretti Victor. (2022). Zero rank asymptotic Bridgeland stability. *Journal of Geometry and Physics*, 182. URL: <https://www.sciencedirect.com/science/article/pii/S0393044022002182>. DOI: <https://doi.org/10.1016/j.geomphys.2022.104668>. Réf. HAL: [hal-03898602](https://hal.archives-ouvertes.fr/hal-03898602)
41. Dolecki Szymon. (2022). When a convergence of filters is measure-theoretic. *Topology and its Applications*, 309. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0166864121003254>. DOI:

<https://doi.org/10.1016/j.topol.2021.107910>. Réf. HAL: [hal-03927620](https://hal.archives-ouvertes.fr/hal-03927620)

42. Duarte Miguel, Feng Justin, Gasperín Edgar, Hilditch David. (2022). Peeling in generalized harmonic gauge. *Classical and Quantum Gravity*, 39(21). URL:

<https://iopscience.iop.org/article/10.1088/1361-6382/ac89c5>. DOI:

<https://doi.org/10.1088/1361-6382/ac89c5>. Réf. HAL: [hal-03898584](https://hal.archives-ouvertes.fr/hal-03898584) - [OA hors HAL](#)

43. Dubouloz Adrien, Kishimoto Takashi, Palka Karol. (2022). Completions of affine spaces into Mori fiber spaces with non-rational fibers. *Journal of the London Mathematical Society*, 106(2). DOI: <https://doi.org/10.1112/jlms.12598>. Réf. HAL: [hal-](https://hal.archives-ouvertes.fr/hal-02967204)

[02967204](https://hal.archives-ouvertes.fr/hal-02967204) - [OA hors HAL](#)

44. Dubouloz Adrien, Liendo Alvaro. (2022). Normal real affine varieties with circle actions. *Annales de l'Institut Fourier*, 72(5). URL: [https://aif.centre-](https://aif.centre-mersenne.org/articles/10.5802/aif.3504/)

[mersenne.org/articles/10.5802/aif.3504/](https://aif.centre-mersenne.org/articles/10.5802/aif.3504/). DOI: <https://doi.org/10.5802/aif.3504>. Réf.

HAL: [hal-01909130](https://hal.archives-ouvertes.fr/hal-01909130) - [OA hors HAL](#)

45. Dubouloz Adrien, Hedén Isac, Kishimoto Takashi. (2022). Rees algebras of additive group actions. *Mathematische Zeitschrift*, 301. URL:

<https://link.springer.com/article/10.1007/s00209-021-02926-0>. DOI:

<https://doi.org/10.1007/s00209-021-02926-0>. Réf. HAL: [hal-02163916](https://hal.archives-ouvertes.fr/hal-02163916) - [OA HAL](#)

46. Duchêne Vincent, Klein Christian. (2022). Numerical study of the Serre-Green-Naghdi equations and a fully dispersive counterpart. *Discrete and Continuous Dynamical Systems - Series B*, 27(10). URL:

<https://www.aims sciences.org/article/doi/10.3934/dcdsb.2021300>. DOI:

<https://doi.org/10.3934/dcdsb.2021300>. Réf. HAL: [hal-02617465](https://hal.archives-ouvertes.fr/hal-02617465) - [OA HAL](#)

47. Dupuis Xavier, Tardivel Patrick. (2022). Proximal operator for the sorted l_1 norm: Application to testing procedures based on SLOPE. *Journal of Statistical Planning and Inference*, 221. URL:

<https://www.sciencedirect.com/science/article/abs/pii/S0378375822000179>. DOI:

<https://doi.org/10.1016/j.jspi.2022.02.005>. Réf. HAL: [hal-03177108](https://hal.archives-ouvertes.fr/hal-03177108) - [OA HAL](#)

48. De Larochelambert Quentin, Difernand Audrey, Antero Juliana, Sedeaud Adrien, Toussaint Jean-François, Louis Pierre-Yves, Coulmy Nicolas. (2022). Relative age effect in French alpine skiing: Problem and solution. *Journal of Sports Sciences*, 40(10). URL: <https://www.tandfonline.com/doi/full/10.1080/02640414.2022.2052428>. DOI:

<https://doi.org/10.1080/02640414.2022.2052428>. Réf. HAL: [hal-03628478](https://hal.archives-ouvertes.fr/hal-03628478) - [OA HAL](#)

49. Faenzi Daniele, Marchesi Simone. (2022). On Stability of Logarithmic Tangent Sheaves: Symmetric and Generic Determinants. *International Mathematics Research Notices*, 2022(23). URL: [https://academic.oup.com/imrn/article-](https://academic.oup.com/imrn/article-abstract/2022/23/18589/6363662)

[abstract/2022/23/18589/6363662](https://academic.oup.com/imrn/article-abstract/2022/23/18589/6363662). DOI: <https://doi.org/10.1093/imrn/rnab236>. Réf.

HAL: [hal-03927433](https://hal.archives-ouvertes.fr/hal-03927433) - [OA hors HAL](#)

50. Faenzi Daniele, Kim Yeongrak (2022). Ulrich bundles on cubic fourfolds. *Commentarii Mathematici Helvetici*, 97(4). URL:

<https://ems.press/journals/cmh/articles/8629345>. DOI:

<https://doi.org/10.4171/CMH/546>. Réf. HAL: [hal-03951392](https://hal.archives-ouvertes.fr/hal-03951392) - OA hors HAL

51. Faes Quentin (2022). Lagrangian traces for the Johnson filtration of the handlebody group. *Topology and its Applications*, 324. URL: <https://www.sciencedirect.com/science/article/abs/pii/S016686412200339X>. DOI: <https://doi.org/10.1016/j.topol.2022.108337>. Réf. HAL: [hal-03941230](https://hal.archives-ouvertes.fr/hal-03941230) - OA hors HAL

52. Faes Quentin (2022). Triviality of the J_4 -equivalence among homology 3-spheres. *Transactions of the American Mathematical Society*, (6597-6620). URL: <https://www.ams.org/journals/tran/2022-375-09/S0002-9947-2022-08718-3/>. DOI: <https://doi.org/10.1090/tran/8718>. Réf. HAL: [hal-03941260](https://hal.archives-ouvertes.fr/hal-03941260)

53. Fima Pierre, Le Maître François, Melleray Julien, Moon Soyoung. (2022). Homogeneous actions on Urysohn spaces. *Colloquium Mathematicum*, 167(1). URL: <https://www.impan.pl/pl/wydawnictwa/czasopisma-i-serie-wydawnicze/colloquium-mathematicum/all/167/1/114141/homogeneous-actions-on-urysohn-spaces>. DOI: <https://doi.org/10.4064/cm7706-1-2021>. Réf. HAL: [hal-03467614](https://hal.archives-ouvertes.fr/hal-03467614) - OA hors HAL

54. Fima Pierre, Le Maître François, Moon Soyoung, Stalder Yves. (2022). A characterization of high transitivity for groups acting on trees. *Discrete Analysis*. URL: <https://discreteanalysisjournal.com/article/37645>. DOI: <https://doi.org/10.19086/da.37645>. Réf. HAL: [hal-02518983](https://hal.archives-ouvertes.fr/hal-02518983) - OA HAL

55. Frascolla Cindy, Lecuelle Guillaume, Schlich Pascal, Cardot Hervé. (2022). Two sample tests for Semi-Markov processes with parametric sojourn time distributions: an application in sensory analysis. *Computational Statistics*, 37. URL: <https://link.springer.com/article/10.1007/s00180-022-01210-x>. DOI: <https://doi.org/10.1007/s00180-022-01210-x>. Réf. HAL: [hal-03641962](https://hal.archives-ouvertes.fr/hal-03641962)

56. Frauenthiener Jörg, Klein Christian, Muhammad Umar, Stoilov Nikola. (2022). Numerical study of Davey–Stewartson I systems. *Studies in Applied Mathematics*, 149(1). URL: <https://onlinelibrary.wiley.com/doi/full/10.1111/sapm.12491>. DOI: <https://doi.org/10.1111/sapm.12491>. Réf. HAL: [hal-03885203](https://hal.archives-ouvertes.fr/hal-03885203) - OA hors HAL

57. Gaillard Pierre. (2022). $2N$ Parameter Solutions to the Burgers' Equation. *Journal of Applied Nonlinear Dynamics*, 11(1). URL: <https://www.lhscientificpublishing.com/Journals/articles/DOI-10.5890-JAND.2022.03.005.aspx>. DOI: <https://doi.org/10.5890/JAND.2022.03.005>. Réf. HAL: [hal-03552155](https://hal.archives-ouvertes.fr/hal-03552155)

58. Gaillard Pierre. (2022). Families of solutions to the KPI equation given by an extended Darboux transformation. *SN Partial Differential Equations and Applications*, 3(6). URL: <https://link.springer.com/article/10.1007/s42985-022-00212-0>. DOI: <https://doi.org/10.1007/s42985-022-00212-0>. Réf. HAL: [hal-03907917](https://hal.archives-ouvertes.fr/hal-03907917)

59. Gaillard Pierre (2022). Quasi-Rational and Rational Solutions to the Defocusing Nonlinear Schrödinger Equation. *Journal of Mathematical Sciences and Modelling*, 5(1). URL: <https://dergipark.org.tr/en/pub/jmsm/issue/69806/990955>. DOI: <https://doi.org/10.33187/jmsm.990955>. Réf. HAL: [hal-03952817](https://hal.archives-ouvertes.fr/hal-03952817) - [OA hors HAL](#)
60. Gaillard Pierre. (2022). Rational solutions to the KPI equation from particular polynomials. *Wave Motion*, 108. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0165212521001268>. DOI: <https://doi.org/10.1016/j.wavemoti.2021.102828>. Réf. HAL: [hal-03537353](https://hal.archives-ouvertes.fr/hal-03537353)
61. Gaillard Pierre. (2022). Rational solutions to the Painlevé II equation from particular polynomials. *International Journal of Applied Nonlinear Science*, 1(1). URL: <https://www.inderscience.com/offer.php?id=125305>. DOI: <https://doi.org/10.1504/IJANS.2022.10047559>. Réf. HAL: [hal-03898062](https://hal.archives-ouvertes.fr/hal-03898062)
62. Gallone Matteo, Michelangeli Alessandro, Pozzoli Eugenio. (2022). Quantum geometric confinement and dynamical transmission in Grushin cylinder. *Reviews in Mathematical Physics*, 34(07). URL: <https://www.worldscientific.com/doi/10.1142/S0129055X22500180>. DOI: <https://doi.org/10.1142/S0129055X22500180>. Réf. HAL: [hal-03895969](https://hal.archives-ouvertes.fr/hal-03895969) - [OA hors HAL](#)
63. Gasperin Edgar, Jaramillo José Luis. (2022). Energy scales and black hole pseudospectra: the structural role of the scalar product. *Classical and Quantum Gravity*, 39(11). URL: <https://iopscience.iop.org/article/10.1088/1361-6382/ac5054>. DOI: <https://doi.org/10.1088/1361-6382/ac5054>. Réf. HAL: [hal-03318846](https://hal.archives-ouvertes.fr/hal-03318846) - [OA hors HAL](#)
64. Gasperin Edgar, Valiente Kroon Juan A. (2022). Staticity and regularity for zero rest-mass fields near spatial infinity on flat spacetime. *Classical and Quantum Gravity*, 39(1). URL: <https://iopscience.iop.org/article/10.1088/1361-6382/ac37ce>. DOI: <https://doi.org/10.1088/1361-6382/ac37ce>. Réf. HAL: [hal-03318854](https://hal.archives-ouvertes.fr/hal-03318854) - [OA hors HAL](#)
65. Gerdjikov V., Li Nianhua, Matveev Vladimir, Smirnov A. (2022). On soliton solutions and soliton interactions of Kulish–Sklyanin and Hirota–Ohta systems. *Theoretical and Mathematical Physics*, 213(1). URL: <https://link.springer.com/article/10.1134/S0040577922100038>. DOI: <https://doi.org/10.1134/S0040577922100038>. Réf. HAL: [hal-03898791](https://hal.archives-ouvertes.fr/hal-03898791) - [OA hors HAL](#)
66. Giblin Peter, Reeve Graham, Uribe-Vargas Ricardo. (2022). Contact With Circles and Euclidean Invariants of Smooth Surfaces in \mathbb{R}^3 . *Quarterly Journal of Mathematics*, 73(3). URL: <https://academic.oup.com/qjmath/article/73/3/937/6550916?searchresult=1>. DOI: <https://doi.org/10.1093/qjmath/haab058>. Réf. HAL: [hal-03657686](https://hal.archives-ouvertes.fr/hal-03657686) - [OA hors HAL](#)
67. Gaillard Pierre-Alexandre. (2022). Real torus actions on real affine algebraic varieties. *Mathematische Zeitschrift*, 301. URL: <https://link.springer.com/article/10.1007/s00209-021-02958-6>. DOI: <https://doi.org/10.1007/s00209-021-02958-6>. Réf. HAL: [hal-03229728](https://hal.archives-ouvertes.fr/hal-03229728) - [OA HAL](#)

68. Herrmann Samuel, Zucca Cristina (2022). Exact simulation of diffusion first exit times: algorithm acceleration. *Journal of Machine Learning Research*, 23(138). URL: <https://jmlr.org/papers/v23/20-321.html>. Réf. HAL: [hal-03945353](https://hal.archives-ouvertes.fr/hal-03945353)
69. Herrmann Samuel, Massin Nicolas. (2022). Exact simulation of the first passage time through a given level for jump diffusions. *Mathematics and Computers in Simulation*. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0378475422003093>. DOI: <https://doi.org/10.1016/j.matcom.2022.07.007>. Réf. HAL: [hal-03254506](https://hal.archives-ouvertes.fr/hal-03254506) - [OA HAL](https://hal.archives-ouvertes.fr/hal-03254506)
70. Hitrik Michael, Mantile Andrea, Sjostrand Johannes. (2022). Adiabatic Evolution and Shape Resonances. *Memoirs of the American Mathematical Society*, 280(1380). URL: <https://www.ams.org/books/memo/1380/>. DOI: <https://doi.org/10.1090/memo/1380>. Réf. HAL: [hal-03909054](https://hal.archives-ouvertes.fr/hal-03909054) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03909054)
71. Hitrik Michael, Lascaz Richard, Sjöstrand Johannes, Zerzeri Maher. (2022). Semiclassical Gevrey operators and magnetic translations. *Journal of Spectral Theory*, 12(1). URL: <https://ems.press/journals/jst/articles/5119554>. DOI: <https://doi.org/10.4171/JST/394>. Réf. HAL: [hal-03891988](https://hal.archives-ouvertes.fr/hal-03891988) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03891988)
72. Hitrik Michael, Lascaz Richard, Sjöstrand Johannes, Zerzeri Maher. (2022). Semiclassical Gevrey operators on exponentially weighted spaces of holomorphic functions. *Pure and Applied Functional Analysis*, 7(2). URL: <http://yokohamapublishers.jp/online2/oppafa/vol7/p641.html>. Réf. HAL: [hal-03909046](https://hal.archives-ouvertes.fr/hal-03909046)
73. Iakovoglou Ioannis. (2022). On the realisability of Smale orders. *Fundamenta Mathematicae*, 258(3). URL: <https://www.impan.pl/en/publishing-house/journals-and-series/fundamenta-mathematicae/all/258/3/114637/on-the-realisation-of-smale-orders>. DOI: <https://doi.org/10.4064/fm178-4-2022>. Réf. HAL: [hal-03894930](https://hal.archives-ouvertes.fr/hal-03894930) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03894930)
74. Iglesias Francisco Hernández, Shadrin Sergey. (2022). Bi-Hamiltonian Recursion, Liu–Pandharipande Relations, and Vanishing Terms of the Second Dubrovin–Zhang Bracket. *Communications in Mathematical Physics*, 392(1). URL: <https://link.springer.com/article/10.1007/s00220-022-04341-w>. DOI: <https://doi.org/10.1007/s00220-022-04341-w>. Réf. HAL: [hal-03888030](https://hal.archives-ouvertes.fr/hal-03888030) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03888030)
75. Jaramillo José Luis, Panosso Macedo Rodrigo, Sheikh Lamis Al. (2022). Gravitational Wave Signatures of Black Hole Quasinormal Mode Instability. *Physical Review Letters*, 128(21). URL: <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.128.211102>. DOI: <https://doi.org/10.1103/PhysRevLett.128.211102>. Réf. HAL: [hal-03235644](https://hal.archives-ouvertes.fr/hal-03235644) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03235644)
76. Jaramillo José Luis. (2022). Pseudospectrum and binary black hole merger transients. *Classical and Quantum Gravity*, 39(21). URL: <https://iopscience.iop.org/article/10.1088/1361-6382/ac8ddc>. DOI: <https://doi.org/10.1088/1361-6382/ac8ddc>. Réf. HAL: [hal-03707042](https://hal.archives-ouvertes.fr/hal-03707042) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03707042)

77. Khlaif Osama, Kimura Taro. (2022). Virasoro constraint for Uglov matrix model. *Journal of High Energy Physics*, 04. URL: <https://link.springer.com/article/10.1007/JHEP04%282022%29029>. DOI: [https://doi.org/10.1007/JHEP04\(2022\)029](https://doi.org/10.1007/JHEP04(2022)029). Réf. HAL: [hal-03551581](https://hal.archives-ouvertes.fr/hal-03551581) - [OA hors HAL](#)
78. Kimura Taro, Purkayastha Souradeep. (2022). Classical group matrix models and universal criticality. *Journal of High Energy Physics*, 2022(9). URL: <https://link.springer.com/article/10.1007/JHEP09%282022%29163>. DOI: [https://doi.org/10.1007/JHEP09\(2022\)163](https://doi.org/10.1007/JHEP09(2022)163). Réf. HAL: [hal-03898080](https://hal.archives-ouvertes.fr/hal-03898080) - [OA hors HAL](#)
79. Klein Christian, Sjöstrand Johannes, Stoilov Nikola. (2022). Large $|k|$ behavior of complex geometric optics solutions to d-bar problems. *Communications on Pure and Applied Mathematics*. URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cpa.22075>. DOI: <https://doi.org/10.1002/cpa.22075>. Réf. HAL: [hal-03895049](https://hal.archives-ouvertes.fr/hal-03895049) - [OA hors HAL](#)
80. Klein Christian, Saut Jean-Claude, Wang Yuexun. (2022). On the modified fractional Korteweg-de Vries and related equations. *Nonlinearity*, 35(3). URL: <https://iopscience.iop.org/article/10.1088/1361-6544/ac4814>. Réf. HAL: [hal-03554486](https://hal.archives-ouvertes.fr/hal-03554486) - [OA hors HAL](#)
81. Klein Christian, Stoilov Nikola. (2022). Spectral approach to Korteweg-de Vries equations on the compactified real line. *Applied Numerical Mathematics*, 177. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0168927422000514>. DOI: <https://doi.org/10.1016/j.apnum.2022.02.015>. Réf. HAL: [hal-03892385](https://hal.archives-ouvertes.fr/hal-03892385) - [OA hors HAL](#)
82. Leibscher Monika, Pozzoli Eugenio, Pérez Cristobal, Schnell Melanie, Sigalotti Mario, Boscain Ugo, Koch Christiane P. (2022). Full quantum control of enantiomer-selective state transfer in chiral molecules despite degeneracy. *Communications Physics*. URL: <https://www.nature.com/articles/s42005-022-00883-6>. DOI: <https://doi.org/10.1038/s42005-022-00883-6>. Réf. HAL: [hal-02972059](https://hal.archives-ouvertes.fr/hal-02972059) - [OA hors HAL](#)
83. Mardešić Pavao, Radunović Goran, Resman Maja. (2022). Fractal zeta functions of orbits of parabolic diffeomorphisms. *Analysis and Mathematical Physics*, 12(5). URL: <https://link.springer.com/article/10.1007/s13324-022-00724-3>. DOI: <https://doi.org/10.1007/s13324-022-00724-3>. Réf. HAL: [hal-03896175](https://hal.archives-ouvertes.fr/hal-03896175) - [OA hors HAL](#)
84. Mardešić Pavao, Marín D., Villadelprat J. (2022). Bifurcations of Zeros in Translated Families of Functions and Applications. *Journal of Dynamical and Control Systems*, 28(1). URL: <https://link.springer.com/article/10.1007/s10883-020-09520-3>. DOI: <https://doi.org/10.1007/s10883-020-09520-3>. Réf. HAL: [hal-03036229](https://hal.archives-ouvertes.fr/hal-03036229) - [OA hors HAL](#)
85. Mardešić Pavao, Resman Maja. (2022). Realization of analytic moduli for parabolic Dulac germs. *Ergodic Theory and Dynamical Systems*, 42(1). URL: <https://www.cambridge.org/core/journals/ergodic-theory-and-dynamical-systems/article/realization-of-analytic-moduli-for-parabolic-dulac-germs/ABF44A27A97197E9223968BBF177A1B2>. DOI:

<https://doi.org/10.1017/etds.2020.139>. Réf. HAL: [hal-03280552](https://hal.archives-ouvertes.fr/hal-03280552) - OA hors HAL

86. Matveev Vladimir, Smirnov A. (2022). Elliptic solitons and "freak waves". *St. Petersburg Mathematical Journal*, 33(3). URL: <https://www.ams.org/journals/spmj/2022-33-03/S1061-0022-2022-01713-6/>. DOI: <https://doi.org/10.1090/spmj/1713>. Réf. HAL: [hal-03892397](https://hal.archives-ouvertes.fr/hal-03892397)

87. Mokdad Mokdad. (2022). Conformal scattering and the Goursat problem for Dirac fields in the interior of charged spherically symmetric black holes. *Reviews in Mathematical Physics*, 34(01). URL: <https://www.worldscientific.com/doi/10.1142/S0129055X21500379>. DOI: <https://doi.org/10.1142/S0129055X21500379>. Réf. HAL: [hal-03122306](https://hal.archives-ouvertes.fr/hal-03122306) - OA hors HAL

88. Moser-Jauslin Lucy, Terpereau Ronan. (2022). Real structures on horospherical varieties. *Michigan Mathematical Journal*, 71(2). URL: <https://projecteuclid.org/journals/michigan-mathematical-journal/advance-publication/Real-Structures-on-Horospherical-Varieties/10.1307/mmj/20195793.short?tab=ArticleLink>. DOI: <https://doi.org/10.1307/mmj/20195793>. Réf. HAL: [hal-01865442](https://hal.archives-ouvertes.fr/hal-01865442) - OA HAL

89. Paris Luis. (2022). Birth of Garside groups in memory of Patrick Dehornoy. *Journal of Knot Theory and Its Ramifications*, 31(08). URL: <https://www.worldscientific.com/doi/10.1142/S0218216522400041>. DOI: <https://doi.org/10.1142/S0218216522400041>. Réf. HAL: [hal-03896187](https://hal.archives-ouvertes.fr/hal-03896187)

90. Peran D., Resman M., Rolin Jean-Philippe, Servi T. (2022). Linearization of complex hyperbolic Dulac germs. *Journal of Mathematical Analysis and Applications*, 508(1). URL: <https://www.sciencedirect.com/science/article/abs/pii/S0022247X21009124>. DOI: <https://doi.org/10.1016/j.jmaa.2021.125833>. Réf. HAL: [hal-03673980](https://hal.archives-ouvertes.fr/hal-03673980) - OA hors HAL

91. Pozzoli Eugenio, Chambrion Thomas. (2022). Single-input perturbative control of a quantum symmetric rotor. *IEEE Control Systems Letters*, 6. URL: <https://ieeexplore.ieee.org/document/9743407>. DOI: <https://doi.org/10.1109/LCSYS.2022.3162250>. Réf. HAL: [hal-03550749](https://hal.archives-ouvertes.fr/hal-03550749) - OA HAL

92. Pozzoli Eugenio. (2022). Classical and Quantum Controllability of a Rotating Asymmetric Molecule. *Applied Mathematics and Optimization*, 85(1). URL: <https://link.springer.com/article/10.1007/s00245-022-09821-y>. DOI: <https://doi.org/10.1007/s00245-022-09821-y>. Réf. HAL: [hal-03885028](https://hal.archives-ouvertes.fr/hal-03885028) - OA hors HAL

93. Raffaelli Bernard. (2022). Hidden conformal symmetry on the black hole photon sphere. *Journal of High Energy Physics*. URL: <https://link.springer.com/article/10.1007/JHEP03%282022%29125>. DOI: [https://doi.org/10.1007/jhep03\(2022\)125](https://doi.org/10.1007/jhep03(2022)125). Réf. HAL: [hal-03617422](https://hal.archives-ouvertes.fr/hal-03617422) - OA HAL

94. Schneider Ulrike, Tardivel Patrick (2022). The Geometry of Uniqueness, Sparsity and Clustering in Penalized Estimation. *Journal of Machine Learning Research*. URL:

<https://www.jmlr.org/papers/volume23/21-0420/21-0420.pdf>. Réf. HAL: [hal-02548350](https://hal.archives-ouvertes.fr/hal-02548350) - [OA HAL](#)

95. Sternheimer Daniel. (2022). Some Multifaceted Aspects of Mathematical Physics, Our Common Denominator with Elliott Lieb. *Axioms*, 11(10). URL: <https://www.mdpi.com/2075-1680/11/10/522>. DOI: <https://doi.org/10.3390/axioms11100522>. Réf. HAL: [hal-03898723](https://hal.archives-ouvertes.fr/hal-03898723) - [OA hors HAL](#)

96. Sönmez Ercan, Rousselle Arnaud. (2022). Random walk on the random connection model. *Indagationes Mathematicae*, 33(5). URL: <https://www.sciencedirect.com/science/article/pii/S0019357722000386>. DOI: <https://doi.org/10.1016/j.indag.2022.05.002>. Réf. HAL: [hal-03896234](https://hal.archives-ouvertes.fr/hal-03896234) - [OA hors HAL](#)

97. Taflin Johan. (2022). On chain recurrence classes of endomorphisms of \mathbb{P}^k . *Proceedings of the American Mathematical Society*. URL: https://www.ams.org/cgi-bin/mstrack/accepted_papers/proc. DOI: <https://doi.org/10.1090/proc/15947>. Réf. HAL: [hal-03552972](https://hal.archives-ouvertes.fr/hal-03552972) - [OA hors HAL](#)

98. Wu Xi, Kimura Taro. (2022). Boundary condition analysis of first and second order topological insulators. *Journal of Physics: Condensed Matter*, 34(48). URL: <https://iopscience.iop.org/article/10.1088/1361-648X/ac9815>. DOI: <https://doi.org/10.1088/1361-648X/ac9815>. Réf. HAL: [hal-03898705](https://hal.archives-ouvertes.fr/hal-03898705) - [OA hors HAL](#)

Communications

1. Huang Hao, Chouly Franz, Drouet Guillaume, Pignet Nicolas. (2022). Schémas HHT-alpha et prédicteurs-correcteurs pour le contact dynamique avec méthode de Nitsche, *CSMA 2022 : 15ème Colloque National en Calcul des Structures*, 16-20 mai 2022, Giens (France). URL: <https://csma.asso.univ-lorraine.fr/congres-de-giens/>. Réf. HAL: [hal-03683159](https://hal.archives-ouvertes.fr/hal-03683159) - [OA HAL](#)

2. Tardivel Patrick, Schneider Ulrike. (2022). La Géométrie pour l'Unicité, la Parcimonie et le Regroupement des Estimateurs Pénalisés, *53èmes Journées de Statistique de la Société Française de Statistique*, 13-17 juin 2022, Lyon (France). URL : <https://jds22.sciencesconf.org/>. Réf. HAL : [hal-03958365](https://hal.archives-ouvertes.fr/hal-03958365) – [OA hors HAL](#)

Ouvrages

1. Klein Christian, Saut Jean-Claude (e-book 2022). *Nonlinear Dispersive Equations : Inverse Scattering and PDE Methods*, Springer, 580 p. URL: <https://link.springer.com/book/9783030914264>. Réf. HAL: [hal-03554617](https://hal.archives-ouvertes.fr/hal-03554617)

Responsabilités éditoriales

Participation à des comités éditoriaux :

Bonnard Bernard : *Pacific Journal of Mathematics for Industry*, Springer-Nature

Cardot Hervé : *Statistics and Probability Letters*, Elsevier

Chambrion Thomas : *Journal of Dynamical and Control Systems*, Springer-Nature

Fang Shizan : *Potential Analysis*, Springer-Nature

Kitanine Nikolaj : *Annales Henri Poincaré*, Birkhäuser

Kitanine Nikolaj : *SIGMA Symmetry, Integrability and Geometry: Methods and Applications*, Department of Applied Research, Institute of Mathematics of National Academy of Science of Ukraine

Klein Christian : *Nonlinearity*, Institute of Physics, London Mathematical Society

Klein Christian : *Studies in Applied Mathematics*, Wiley-Blackwell

Mardešić Pavao : *Glasnik Matematički*, Croatian Mathematical Society and Department of Mathematics, Zagreb, Croatia

Mardešić Pavao : *Qualitative Theory of Dynamical Systems*, Birkhäuser

Mardešić Pavao : *Extracta Mathematicae*, Universidad de Extremadura

Moser-Jauslin Lucy : *Publications Mathématiques de Besançon*, Laboratoire de Mathématiques de Besançon

Semenov-Tian-Shansky Michel : *Letters in Mathematical Physics*, Springer-Nature

Semenov-Tian-Shansky Michel : *Functional Analysis and its Applications*, Springer-Nature

Semenov-Tian-Shansky Michel : *St Petersburg Mathematical Journal*, American Mathematical Society

Sjostrand Johannes : *Journal of Pseudo-differential Operators and Applications*, Birkhäuser

Sternheimer Daniel : *Reports on Mathematical Physics*, Elsevier

Sternheimer Daniel : *Letters in Mathematical Physics*, Springer-Nature

Direction de journal :

Dito Giuseppe (éditeur en chef) : *Letters in Mathematical Physics*, Springer-Nature

Direction de collections et de séries :

Dito Giuseppe : *Mathematical Physics Studies*, Springer-Nature

Dito Giuseppe (éditeur en chef) : *Progress in Mathematical Physics*, Birkhauser

Thèses

1. Al Sheikh Lamis (2022) : « Résonances en théorie de la diffusion et Pseudospectre: stabilité et complétude pour systèmes optiques et gravitationnels », directeur : Jaramillo José Luis
2. Babinet Nicolas (2022) : « Modèles de chaînes de matrices aléatoires Réduction et factorisation des modèles à deux matrices et supermatrices », directeurs : Dito Giuseppe et Kimura Taro
3. Bulle Raphaël (2022) : « Estimation d'erreur a posteriori pour l'approximation de problèmes Laplaciens fractionnaires et applications en poro-élasticité », directeurs : Chouly Franz, Bordas Stéphane et Lozinski Alexei
4. Carnevale João (2022) : « Action de groupes sur la droite et le cercle avec au plus N points fixes », directeurs : Bonatti Christian et Triestino Michele
5. Ding Hao (2022) : « Flots de Newton, transports parallèles stochastiques, Q-processus de Wiener, et équation de Dean- Kawasaki sur l'espace de Wasserstein », directeurs : Fang Shizan et Li Xiang-dong.
6. Frascolla Cindy (2022) : « Construction de tests statistiques pour la comparaison de trajectoires qualitatives : application à la Dominance Temporelle des Sensations », directeurs : Cardot Hervé et Schlich Pascal.
7. Guimaraes Douglas (2022) : « Espaces de modules de faisceaux quasi-triviaux sur l'espace projectif tridimensionnel », directeurs : Faenzi Daniele et Jardim Marcos.

Thèse co-encadrée par des membres de l'IMB dans d'autres laboratoires

1. Ounajim Amine (2022) : « Mixture of random time-varying coefficients and longitudinal factor analysis models and their application to chronic pain multidimensional assessment », directeurs : Yousri Slaoui (CHU de Poitiers), Pierre-Yves Louis et Philippe Rigoard (CHU de Poitiers).