

Publications 2021

de l'Institut de Mathématiques de Bourgogne

Articles de revues

1. Alvarez Amelia, Bravo Jose Luis, Christopher C, Mardesić Pavao (2021). Infinitesimal center problem on zero cycles and the composition conjecture. *Functional Analysis and Its Applications*, 55(4):3-21. URL: http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=faa&paperid=3854&option_lang=eng. DOI: <https://doi.org/10.4213/faa3854>. Réf. HAL: [hal-03536793](https://hal.archives-ouvertes.fr/hal-03536793)
2. An Duong Thi Viet, Jourani Abderrahim (2021). Subdifferentials of the Marginal Functions in Parametric Convex Optimization via Intersection Formulas. *Journal of Optimization Theory and Applications*. 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](https://hal.archives-ouvertes.fr/hal-03448368)
3. Antolín Yago, Cumplido María (2021). Parabolic subgroups acting on the additional length graph. *Algebraic and Geometric Topology*, 21(4):1791-1816. URL: <https://msp.org/agt/2021/21-4/po6.xhtml>. DOI: <https://doi.org/10.2140/agt.2021.21.1791>. Réf. HAL: [hal-03466994](https://hal.archives-ouvertes.fr/hal-03466994) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03466994)
4. Antolín Yago, Paris Luis (2021). Transverse properties of parabolic subgroups of Garside groups. *Israel Journal of Mathematics*, 241(2):501-526. URL: <https://link.springer.com/article/10.1007%2Fs11856-021-2100-x>. DOI: <https://doi.org/10.1007/s11856-021-2100-x>. Réf. HAL: [hal-03303508](https://hal.archives-ouvertes.fr/hal-03303508) - [OA hors HAL](https://hal.archives-ouvertes.fr/hal-03303508)
5. Arnold Anton, Klein Christian, Ujvari Bernhard (2021). WKB-method for the 1D Schrödinger equation in the semi-classical limit: enhanced phase treatment. *BIT Numerical Mathematics*. 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](https://hal.archives-ouvertes.fr/hal-03301359)
6. Bakir Toufik, Bonnard Bernard, Bourdin Loïc, Rouot Jérémy (2021). Direct and Indirect Methods to Optimize the Muscular Force Response to a Pulse Train of Electrical Stimulation. *ESAIM: Proceedings and Surveys*, 71:1-10. URL: <https://www.esaim-proc.org/articles/proc/abs/2021/02/proc2107101/proc2107101.html>. DOI: <https://doi.org/10.1051/proc/202171101>. Réf. HAL: [hal-02053566](https://hal.archives-ouvertes.fr/hal-02053566) - [OA HAL](https://hal.archives-ouvertes.fr/hal-02053566)
7. Bansaye Vincent, Bitseki Penda Siméon Valère (2021). A Phase Transition for Large

- Values of Bifurcating Autoregressive Models. *Journal of Theoretical Probability*. URL: <https://link.springer.com/article/10.1007/s10959-020-01033-w>. DOI: <https://doi.org/10.1007/s10959-020-01033-w>. Réf. HAL: [hal-03034151](https://hal.archives-ouvertes.fr/hal-03034151) - [OA hors HAL](#)
8. Barthelmé Thomas, Bonatti Christian, Gogolev Andrey, Rodriguez Hertz Federico (2021). Anomalous Anosov flows revisited. *Proceedings of the London Mathematical Society*, 22(1):93-117. URL: <https://londmathsoc.onlinelibrary.wiley.com/doi/abs/10.1112/plms.12321>. DOI: <https://doi.org/10.1112/plms.12321>. Réf. HAL: [hal-03023675](https://hal.archives-ouvertes.fr/hal-03023675) - [OA hors HAL](#)
9. Basdouri O., Braghtha Aymen, Hammami S. (2021). The Second Cohomology Spaces $K(2)$ with Coefficients in the Superspace of Weighted Densities. *Ukrainian Mathematical Journal*, 72(10):1522-1535. URL: <https://link.springer.com/article/10.1007/s11253-021-01870-w>. DOI: <https://doi.org/10.1007/s11253-021-01870-w>. Réf. HAL: [hal-03301443](https://hal.archives-ouvertes.fr/hal-03301443)
10. Blanc Jérémy, Fanelli Andrea, Terpereau Ronan (2021). Connected algebraic groups acting on three-dimensional Mori fibrations. *International Mathematics Research Notices*. URL : <https://academic.oup.com/imrn/advance-article/doi/10.1093/imrn/rnab293/6406715>. DOI: <https://doi.org/10.1093/imrn/rnab293>. Réf. HAL: [hal-02489771](https://hal.archives-ouvertes.fr/hal-02489771) - [OA HAL](#)
11. Bonatti Christian, Pinsky Tali (2021). Lorenz attractors and the modular surface*. *Nonlinearity*, 34(6):4315-4331. URL: <https://iopscience.iop.org/article/10.1088/1361-6544/abf8fa>. DOI: <https://doi.org/10.1088/1361-6544/abf8fa>. Réf. HAL: [hal-03404498](https://hal.archives-ouvertes.fr/hal-03404498) - [OA hors HAL](#)
12. Bonatti Christian, Díaz Lorenzo J., Kwietniak Dominik (2021). Robust existence of nonhyperbolic ergodic measures with positive entropy and full support. *Annali della Scuola Normale Superiore di Pisa, Classe di Scienze*, 22(4):1643-1672. URL: <https://journals.sns.it/index.php/annaliscienze/article/view/876>. DOI: https://doi.org/10.2422/2036-2145.202001_014. Réf. HAL: [hal-03403704](https://hal.archives-ouvertes.fr/hal-03403704) - [OA hors HAL](#)
13. Bonatti Christian, Da Luz Adriana (2021). Star flows and multisingular hyperbolicity. *Journal of the European Mathematical Society*, 23(8):2649-2705. URL: https://www.emis-ph.org/journals/show_abstract.php?issn=1435-9855&vol=23&iss=8&rank=5. DOI: <https://doi.org/10.4171/JEMS/1064>. Réf. HAL: [hal-02370538](https://hal.archives-ouvertes.fr/hal-02370538) - [OA hors HAL](#)
14. Bonnard Bernard, Cots Olivier, Wembe Boris (2021). A Zermelo navigation problem with a vortex singularity. *ESAIM: Control, Optimisation and Calculus of Variations*, 27(S)S10. URL: <https://www.esaim-cocv.org/articles/cocv/abs/2021/01/cocv190150/cocv190150.html>. DOI: <https://doi.org/10.1051/cocv/2020058>. Réf. HAL: [hal-02296046](https://hal.archives-ouvertes.fr/hal-02296046) - [OA HAL](#)
15. Brauner Claude-Michel, Roussarie Robert, Shang Peipei, Zhang Linwan (2021). Existence of a traveling wave solution in a free interface problem with

- fractional order kinetics. *Journal of Differential Equations*, 281:105-147. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0022039621000541?via%3Dihub>. DOI: <https://doi.org/10.1016/j.jde.2021.01.034>. Réf. HAL: [hal-02979187](https://hal.archives-ouvertes.fr/hal-02979187) - OA HAL
16. Carlet Guido, Van De Leur Johan, Posthuma Hessel, Shadrin Sergey (2021). Higher genera Catalan numbers and Hirota equations for extended nonlinear Schrödinger hierarchy. *Letters in Mathematical Physics*, 111(3). URL: <https://link.springer.com/article/10.1007/s11005-021-01391-4>. DOI: <https://doi.org/10.1007/s11005-021-01391-4>. Réf. HAL: [hal-03476927](https://hal.archives-ouvertes.fr/hal-03476927) - OA hors HAL
17. Chouly Franz, Klein Pauline (2021). Wave-heat coupling in one-dimensional unbounded domains: artificial boundary conditions and an optimized Schwarz method. *Numerical Algorithms*. 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
18. Coburn Lewis, Hitrik Michael, Sjöstrand Johannes, White Francis (2021). Weyl symbols and boundedness of Toeplitz operators. *Mathematical Research Letters*, 28(3):681-696. URL: <https://www.intlpress.com/site/pub/pages/journals/items/mrl/content/vols/0028/0003/2003/index.php?mode=ns>. DOI: <https://doi.org/10.4310/MRL.2021.v28.n3.a3>. Réf. HAL: [hal-03302154](https://hal.archives-ouvertes.fr/hal-03302154) - OA hors HAL
19. Combot Thierry, Maciejewski Andrzej, Przybylska Maria (2021). Integrability of the generalised Hill problem. *Nonlinear Dynamics*. URL: <https://link.springer.com/article/10.1007%2Fs11071-021-07040-8>. DOI: <https://doi.org/10.1007/s11071-021-07040-8>. Réf. HAL: [hal-03509794](https://hal.archives-ouvertes.fr/hal-03509794) - OA hors HAL
20. Combot Thierry, Maciejewski Andrzej, Przybylska Maria (2021). Non-integrability of a model of elastic dumbbell satellite. *Nonlinear Dynamics*. URL: <https://link.springer.com/article/10.1007/s11071-021-06771-y>. Réf. HAL : [hal-03533815](https://hal.archives-ouvertes.fr/hal-03533815) – OA hors HAL
21. Coutant Antonin, Achilleos V., Richoux Olivier, Theocharis Georgios, Pagneux Vincent (2021). Topological two-dimensional Su–Schrieffer–Heeger analog acoustic networks: Total reflection at corners and corner induced modes. *Journal of Applied Physics*, 129(12):125108. URL: <https://aip.scitation.org/doi/10.1063/5.0042406>. DOI: <https://doi.org/10.1063/5.0042406>. Réf. HAL: [hal-03283199](https://hal.archives-ouvertes.fr/hal-03283199) - OA hors HAL
22. Coutant Antonin, Sivadon Audrey, Zheng Liyang, Achilleos V., Richoux Olivier, Theocharis Georgios, Pagneux Vincent (2021). Acoustic Su-Schrieffer-Heeger lattice: Direct mapping of acoustic waveguides to the Su-Schrieffer-Heeger model. *Physical Review B*, 103(22):224309. DOI: <https://doi.org/10.1103/PhysRevB.103.224309>. Réf. HAL: [hal-03303241](https://hal.archives-ouvertes.fr/hal-03303241) - OA hors HAL
23. Cénac Peggy, Chauvin Brigitte, Noûs Camille, Paccaut Frédéric, Pouyanne Nicolas (2021). Variable Length Memory Chains: Characterization of stationary probability measures. *Bernoulli*, 27(3):2011-2039. URL:

<https://projecteuclid.org/journals/bernoulli/volume-27/issue-3/Variable-Length-Memory-Chains-Characterization-of-stationary-probability-measures/10.3150/20-BEJ1299.short>. DOI: <https://doi.org/10.3150/20-BEJ1299>. Réf. HAL: [hal-03301904](https://hal.archives-ouvertes.fr/hal-03301904) - [OA hors HAL](#)

24. Déglise Frédéric, Jin Fangzhou, Khan Adeel A. (2021). Fundamental classes in motivic homotopy theory. *Journal of the European Mathematical Society*. URL: https://www.ems-ph.org/journals/of_article.php?jrn=jems&doi=1094. DOI: <https://doi.org/10.4171/JEMS/1094>. Réf. HAL: [hal-02367094](https://hal.archives-ouvertes.fr/hal-02367094) - [OA hors HAL](#)

25. Déglise Frédéric, Fasel Jean, Jin Fangzhou, Khan Adeel A. (2021). On the rational motivic homotopy category. *Journal de l'École polytechnique — Mathématiques*. URL: <https://jep.centre-mersenne.org/item/10.5802/jep.153.pdf>. DOI: <https://doi.org/10.5802/jep.153>. Réf. HAL: [hal-03014174](https://hal.archives-ouvertes.fr/hal-03014174) - [OA hors HAL](#)

26. Déglise Frédéric, Fasel Jean (2021). The Borel character. *Journal of the Institute of Mathematics of Jussieu*, :1-51. URL: <https://www.cambridge.org/core/journals/journal-of-the-institute-of-mathematics-of-jussieu/article/abs/borel-character/C7773CEAoE58A10EABC2Ao68401D07AD>. DOI: <https://doi.org/10.1017/S1474748021000281>. Réf. HAL: [ensl-03466895](https://hal.archives-ouvertes.fr/ensl-03466895) - [OA hors HAL](#)

27. Deledalle Charles-Alban, Papadakis Nicolas, Salmon Joseph, Vaiter Samuel (2021). Block based refitting in l_2 sparse regularisation. *Journal of Mathematical Imaging and Vision*, (63):216-236. URL: <https://link.springer.com/article/10.1007/s10851-020-00993-2>. DOI: <https://doi.org/10.1007/s10851-020-00993-2>. Réf. HAL: [hal-02330441](https://hal.archives-ouvertes.fr/hal-02330441) - [OA HAL](#)

28. Destounis Kyriakos, Macedo Rodrigo Panosso, Berti Emanuele, Cardoso Vitor, Jaramillo José Luis (2021). Pseudospectrum of Reissner-Nordström black holes: Quasinormal mode instability and universality. *Physical Review D*, 104(8):084091. URL: <https://journals.aps.org/prd/abstract/10.1103/PhysRevD.104.084091>. DOI: <https://doi.org/10.1103/PhysRevD.104.084091>. Réf. HAL: [hal-03314815](https://hal.archives-ouvertes.fr/hal-03314815) - [OA hors HAL](#)

29. Detcherry Renaud, Wolff Maxime (2021). A basis for the Kauffman skein module of the product of a surface and a circle. *Algebraic and Geometric Topology*, 21(6):2959-2993. URL: <https://msp.org/agt/2021/21-6/po8.xhtml>. DOI: <https://doi.org/10.2140/agt.2021.21.2959>. Réf. HAL: [hal-03485334](https://hal.archives-ouvertes.fr/hal-03485334) - [OA hors HAL](#)

30. Ding Hao, Fang Shizan (2021). Geometry on the Wasserstein Space Over a Compact Riemannian Manifold. *Acta Mathematica Scientia*, 41(6):1959-1984. URL: <https://link.springer.com/article/10.1007%2Fs10473-021-0612-4>. DOI: <https://doi.org/10.1007/s10473-021-0612-4>. Réf. HAL: [hal-03468600](https://hal.archives-ouvertes.fr/hal-03468600) - [OA hors HAL](#)

31. Dolecki Szymon, Starosolski Andrzej (2021). Continuous extension of maps between sequential cascades. *Annals of Pure and Applied Logic*, 172(4):102928. URL: <https://www.sciencedirect.com/science/article/pii/S0168007220301524?via%3Dihub>. DOI: <https://doi.org/10.1016/j.apal.2020.102928>. Réf. HAL: [hal-03283193](https://hal.archives-ouvertes.fr/hal-03283193) - [OA hors HAL](#)

32. Dolecki Szymon (2021). Multiple facets of inverse continuity. *Topology Proceedings*, 57:101-135. URL: <http://topology.nipissingu.ca/tp/reprints/v57/>. Réf. HAL: [hal-03477124](https://hal.archives-ouvertes.fr/hal-03477124)
33. Duarte Miguel, Feng Justin, Gasperin Edgar, Hilditch David (2021). High order asymptotic expansions of a good–bad–ugly wave equation. *Classical and Quantum Gravity*, 38(14):145015. URL: <https://iopscience.iop.org/article/10.1088/1361-6382/abfed2>. DOI: <https://doi.org/10.1088/1361-6382/abfed2>. Réf. HAL: [hal-03129420](https://hal.archives-ouvertes.fr/hal-03129420) - [OA hors HAL](#)
34. Dubouloz Adrien, Mangolte Frédéric (2021). Algebraic models of the line in the real affine plane. *Geometriae Dedicata*, 210:179-204. URL: <https://link.springer.com/article/10.1007/s10711-020-00539-1>. DOI: <https://doi.org/10.1007/s10711-020-00539-1>. Réf. HAL: [hal-01802038](https://hal.archives-ouvertes.fr/hal-01802038) - [OA HAL](#)
35. Dubouloz Adrien, Freudenburg Gene, Moser-Jauslin Lucy (2021). Smooth rational affine varieties with infinitely many real forms. *Journal für die reine und angewandte Mathematik*, 2021(771):215-226. URL: <https://www.degruyter.com/document/doi/10.1515/crelle-2020-0024/html>. DOI: <https://doi.org/10.1515/crelle-2020-0024>. Réf. HAL: [hal-03235041](https://hal.archives-ouvertes.fr/hal-03235041)
36. Duchêne Vincent, Klein Christian (2021). Numerical study of the Serre-Green-Naghdi equations and a fully dispersive counterpart. *Discrete and Continuous Dynamical Systems - Series B*. 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](#)
37. Dujardin G, Armaroli A, Rota Nodari Simona, Mussot A, Kudlinski A, Trillo S, Conforti M, De Bièvre Stephan (2021). Modulational instability in optical fibers with randomly-kicked normal dispersion. *Physical Review A*, 103(5):053521. URL: <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.103.053521>. DOI: <https://doi.org/10.1103/PhysRevA.103.053521>. Réf. HAL: [hal-03157350](https://hal.archives-ouvertes.fr/hal-03157350) - [OA HAL](#)
38. Dupont Christophe, Taflin Johan (2021). Dynamics of fibered endomorphisms of P^k . *Annali della Scuola Normale Superiore di Pisa, Classe di Scienze*, 22(1):53-78. URL: <https://journals.sns.it/index.php/annaliscienze/article/view/775>. DOI : [10.2422/2036-2145.201811_017](https://doi.org/10.2422/2036-2145.201811_017). Réf. HAL: [hal-01925373](https://hal.archives-ouvertes.fr/hal-01925373) - [OA HAL](#)
39. Faenzi Daniele, Malaspina Francesco, Sanna Giangiacomo (2021). Non-Ulrich representation type. *Algebraic Geometry*, 8(4):405-429. URL: <http://content.algebraicgeometry.nl/2021-4/2021-4-012.pdf>. DOI: <https://doi.org/10.14231/AG-2021-012>. Réf. HAL: [hal-03303370](https://hal.archives-ouvertes.fr/hal-03303370) - [OA hors HAL](#)
40. Faenzi Daniele, Pons-Llopis Joan (2021). The Cohen-Macaulay representation type of arithmetically Cohen-Macaulay varieties. *Épjournal de Géométrie Algébrique*, Volume 5:8. URL: <https://epiga.episciences.org/7476>. DOI: <https://doi.org/10.46298/epiga.2021.volumes5.7113>. Réf. HAL: [hal-03303377](https://hal.archives-ouvertes.fr/hal-03303377) - [OA hors](#)

41. Fima Pierre, Le Maître François, Melleray Julien, [Moon Soyoung](#) (2021). Homogeneous actions on Urysohn spaces. *Colloquium Mathematicum*, 167(1):21-61. 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](#) - [OA hors HAL](#)

42. Fima Pierre, [Moon Soyoung](#), Stalder Yves (2021). Homogeneous actions on the Random Graph. *Groups, Geometry, and Dynamics*, 15(1):1-34. URL: <https://ems.press/journals/ggd/articles/17392>. DOI: <https://doi.org/10.4171/GGD/589>. Réf. HAL: [hal-01902444](#) - [OA HAL](#)

43. [Gaillard Pierre](#) (2021). Multi-parametric Rational Solutions to the KdV Equation. *Asian Journal of Research and Reviews in Physics*, :14-21. URL: <https://www.journalajr2p.com/index.php/AJR2P/article/view/30143>. DOI: <https://doi.org/10.9734/ajr2p/2021/v4i330143>. Réf. HAL: [hal-03537302](#) - [OA hors HAL](#)

44. [Gaillard Pierre](#) (2021). Multiparametric solutions to the Gardner equation and the degenerate rational case. *Journal of Applied Analysis and Computation*, 11(4):2102-2113. URL: <http://www.jaac-online.com/article/doi/10.11948/20200332>. DOI: <https://doi.org/10.11948/20200332>. Réf. HAL: [hal-03466924](#) - [OA hors HAL](#)

45. [Gaillard Pierre](#) (2021). Other Families of Rational Solutions to the KPI Equation. *Asian Research Journal of Mathematics*, :27-34. URL: <https://www.journalarjom.com/index.php/ARJOM/article/view/30306>. DOI: <https://doi.org/10.9734/arjom/2021/v17i630306>. Réf. HAL: [hal-03537324](#) - [OA hors HAL](#)

46. [Gaillard Pierre](#) (2021). Degenerate Riemann theta functions, Fredholm and wronskian representations of the solutions to the KdV equation and the degenerate rational case. *Journal of Geometry and Physics*, 161:104059. URL: <https://www.sciencedirect.com/science/article/pii/S0393044020302916?via%3Dihub>. DOI: <https://doi.org/10.1016/j.geomphys.2020.104059>. Réf. HAL: [hal-03234952](#)

47. [Gaillard Pierre](#) (2021). Multiparametric Rational Solutions of Order N to the KPI Equation and the Explicit Case of Order 3. *Archives of Current Research International*, :58-71. URL: <https://www.journalacri.com/index.php/ACRI/article/view/30253>. DOI: <https://doi.org/10.9734/acri/2021/v21i630253>. Réf. HAL: [hal-03537345](#) - [OA hors HAL](#)

48. [Gaillard Pierre](#) (2021). Rational solutions to the KPI equation from particular polynomials. *Wave Motion*, 108:102828. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0165212521001268>. DOI: <https://doi.org/10.1016/j.wavemoti.2021.102828>. Réf. HAL: [hal-03537353](#)

49. [Gaillard Pierre](#) (2021). Rational solutions to the mKdV equation associated to particular polynomials. *Wave Motion*, 107:102824. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0165212521001220?via%3Dihub>

ub. DOI: <https://doi.org/10.1016/j.wavemoti.2021.102824>. Réf. HAL: [hal-03467660](https://hal.archives-ouvertes.fr/hal-03467660)

50. Gaillard Pierre (2021). The mKdV equation and multi-parameters rational solutions. *Wave Motion*, 100:102667. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0165212520302973?via%3Dihub>. DOI: <https://doi.org/10.1016/j.wavemoti.2020.102667>. Réf. HAL: [hal-03303391](https://hal.archives-ouvertes.fr/hal-03303391)

51. Habiro Kazuo, Massuyeau Gwénaél (2021). The Kontsevich integral for bottom tangles in handlebodies. *Quantum Topology*, 12(4):593-703. URL: https://www.emis-ph.org/journals/show_abstract.php?issn=1663-487X&vol=12&iss=4&rank=1&p403=1. DOI: <https://doi.org/10.4171/QT/155>. Réf. HAL: [hal-03468292](https://hal.archives-ouvertes.fr/hal-03468292) - OA hors HAL

52. Helffer Bernard, Sjostrand Johannes (2021). Improving Semigroup Bounds with Resolvent Estimates. *Integral Equations and Operator Theory*, 93(3):36. URL: <https://link.springer.com/article/10.1007%2F500020-021-02652-6>. DOI: <https://doi.org/10.1007/s00020-021-02652-6>. Réf. HAL: [hal-03302132](https://hal.archives-ouvertes.fr/hal-03302132)

53. Jaramillo José Luis, Panosso Macedo Rodrigo, Al Sheikh Lamis (2021). Pseudospectrum and Black Hole Quasinormal Mode Instability. *Physical Review X*, 11(3):031003. DOI: <https://doi.org/10.1103/PhysRevX.11.031003>. Réf. HAL: [hal-02557745](https://hal.archives-ouvertes.fr/hal-02557745) - OA hors HAL

54. Jourani Abderrahim, Sene Moustapha (2021). Geometric characterizations of the strict Hadamard differentiability of sets. *Pure and Applied Functional Analysis*, 6(6):1333-1346. URL: <http://yokohamapublishers.jp/online2/oppafa/vol6/p1333.html>. Réf. HAL: [hal-03452691](https://hal.archives-ouvertes.fr/hal-03452691) - OA HAL

55. Kelleher Colm, Holweck Frédéric, Lévy Péter, Saniga Metod (2021). X-states from a finite geometric perspective. *Results in Physics*, 22:103859. URL: <https://www.sciencedirect.com/science/article/pii/S2211379721000425?via%3Dihub>. DOI: <https://doi.org/10.1016/j.rinp.2021.103859>. Réf. HAL: [hal-03283167](https://hal.archives-ouvertes.fr/hal-03283167) - OA hors HAL

56. Kimura Taro (2021). ABCD of Kondo effect. *Journal of the Physical Society of Japan*, 90(2):024708. URL: <https://journals.jps.jp/doi/10.7566/JPSJ.90.024708>. DOI: <https://doi.org/10.7566/JPSJ.90.024708>. Réf. HAL: [hal-03047659](https://hal.archives-ouvertes.fr/hal-03047659) - OA hors HAL

57. Kimura Taro, Zhu Rui-Dong (2021). Bethe/Gauge Correspondence for SO/Sp Gauge Theories and Open Spin Chains. *Journal of High Energy Physics*, 03:227. URL: [https://link.springer.com/article/10.1007/JHEP03\(2021\)227](https://link.springer.com/article/10.1007/JHEP03(2021)227). DOI: [https://doi.org/10.1007/JHEP03\(2021\)227](https://doi.org/10.1007/JHEP03(2021)227). Réf. HAL: [hal-03115858](https://hal.archives-ouvertes.fr/hal-03115858) - OA hors HAL

58. Kimura Taro, Panfil Miłosz, Sugimoto Yuji, Sułkowski Piotr (2021). Branes, quivers and wave-functions. *SciPost Physics*, 10(2):051. URL: <https://scipost.org/10.21468/SciPostPhys.10.2.051>. DOI: <https://doi.org/10.21468/SciPostPhys.10.2.051>. Réf. HAL: [hal-03047619](https://hal.archives-ouvertes.fr/hal-03047619) - OA hors HAL

59. Kimura Taro (2021). Hall and Spin Hall Viscosity in 2d Topological Systems. *Journal*

- of the Physical Society of Japan, 90(6):064705. URL: <https://journals.jps.jp/doi/10.7566/JPSJ.90.064705>. DOI: <https://doi.org/10.7566/JPSJ.90.064705>. Réf. HAL: [hal-03235752](https://hal.archives-ouvertes.fr/hal-03235752) - [OA hors HAL](#)
60. Kimura Taro, Nieri Fabrizio (2021). Intersecting defects and supergroup gauge theory. *Journal of Physics A: Mathematical and Theoretical*, 54(43):435401. URL: <https://iopscience.iop.org/article/10.1088/1751-8121/ac2716>. DOI: <https://doi.org/10.1088/1751-8121/ac2716>. Réf. HAL: [hal-03467652](https://hal.archives-ouvertes.fr/hal-03467652) - [OA hors HAL](#)
61. Kimura Taro, Zahabi Ali (2021). Unitary matrix models and random partitions: Universality and multi-criticality. *JHEP*, 07:100. URL: [https://link.springer.com/article/10.1007/JHEP07\(2021\)100](https://link.springer.com/article/10.1007/JHEP07(2021)100). DOI: [https://doi.org/10.1007/JHEP07\(2021\)100](https://doi.org/10.1007/JHEP07(2021)100). Réf. HAL: [hal-03229411](https://hal.archives-ouvertes.fr/hal-03229411) - [OA hors HAL](#)
62. Kimura Taro, Zahabi Ali (2021). Universal edge scaling in random partitions. *Letters in Mathematical Physics*, 111:48. URL: <https://link.springer.com/article/10.1007/s11005-021-01389-y>. DOI: <https://doi.org/10.1007/s11005-021-01389-y>. Réf. HAL: [hal-03229406](https://hal.archives-ouvertes.fr/hal-03229406) - [OA hors HAL](#)
63. Kitanine Nikolai, Kulkarni Giridhar (2021). Form Factors of the Heisenberg Spin Chain in the Thermodynamic Limit: Dealing with Complex Bethe Roots. *SIGMA*, 17:112. DOI: <https://doi.org/10.3842/SIGMA.2021.112>. Réf. HAL: [hal-03248894](https://hal.archives-ouvertes.fr/hal-03248894) - [OA hors HAL](#)
64. Klein Christian, Riton Julien, Stoilov Nikola (2021). Multi-domain spectral approach for the Hilbert transform on the real line. *SN Partial Differential Equations and Applications*, 2(3):36. URL: <https://link.springer.com/article/10.1007/s42985-021-00094-8>. DOI: <https://doi.org/10.1007/s42985-021-00094-8>. Réf. HAL: [hal-03537134](https://hal.archives-ouvertes.fr/hal-03537134) - [OA hors HAL](#)
65. Klein Christian, Stoilov Nikola (2021). Multi-domain spectral approach with Sommerfeld condition for the Maxwell equations. *Journal of Computational Physics*, 434:110149. URL: <https://www.sciencedirect.com/science/article/pii/S0021999121000413?via%3Dihub>. DOI: <https://doi.org/10.1016/j.jcp.2021.110149>. Réf. HAL: [hal-03283204](https://hal.archives-ouvertes.fr/hal-03283204) - [OA hors HAL](#)
66. Klein Christian, Roudenko Svetlana, Stoilov Nikola (2021). Numerical Study of Zakharov–Kuznetsov Equations in Two Dimensions. *Journal of Nonlinear Science*, 31(2):36. URL: <https://link.springer.com/article/10.1007/s00332-021-09680-x>. DOI: <https://doi.org/10.1007/s00332-021-09680-x>. Réf. HAL: [hal-03303398](https://hal.archives-ouvertes.fr/hal-03303398) - [OA hors HAL](#)
67. Klein Christian, Stoilov Nikola (2021). Numerical study of break-up in solutions to the dispersionless Kadomtsev–Petviashvili equation. *Letters in Mathematical Physics*, 111(5). URL: <https://link.springer.com/article/10.1007/s11005-021-01454-6>. DOI: <https://doi.org/10.1007/s11005-021-01454-6>. Réf. HAL: [hal-03467044](https://hal.archives-ouvertes.fr/hal-03467044)
68. Klein Christian, Roudenko Svetlana, Stoilov Nikola (2021). Numerical study of soliton stability, resolution and interactions in the 3D Zakharov–Kuznetsov equation.

Physica D: Nonlinear Phenomena, 423:132913. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0167278921000713?via%3Dihub>. DOI: <https://doi.org/10.1016/j.physd.2021.132913>. Réf. HAL: [hal-03303233](https://hal.archives-ouvertes.fr/hal-03303233) - OA hors HAL

69. Klein Christian, Rota Nodari Simona (2021). On a nonlinear Schrödinger equation for nucleons in one space dimension. *ESAIM: Mathematical Modelling and Numerical Analysis*, 55(2):409-427. URL: <https://www.esaim-m2an.org/articles/m2an/abs/2021/03/m2an200021/m2an200021.html>. DOI: <https://doi.org/10.1051/m2an/2020086>. Réf. HAL: [hal-02463441](https://hal.archives-ouvertes.fr/hal-02463441) - OA HAL

70. Klopfenstein Quentin, Vaiter Samuel (2021). Linear support vector regression with linear constraints. *Machine Learning*, 110(7):1939-1974. URL: <https://link.springer.com/article/10.1007%2Fs10994-021-06018-2>. DOI: <https://doi.org/10.1007/s10994-021-06018-2>. Réf. HAL: [hal-03303248](https://hal.archives-ouvertes.fr/hal-03303248) - OA hors HAL

71. Kuno Yusuke, Massuyeau Gwénaél (2021). Generalized Dehn twists on surfaces and homology cylinders. *Algebraic and Geometric Topology*, 21(2):697-754. URL: <https://msp.org/agt/2021/21-2/p05.xhtml>. DOI: <https://doi.org/10.2140/agt.2021.21.697>. Réf. HAL: [hal-02011582](https://hal.archives-ouvertes.fr/hal-02011582) - OA hors HAL

72. Langevin Rémi, O'hara Jun, Sifre Jean-Claude (2021). Osculating spheres to a family of curves. *Saitama Mathematical Journal*, 33, pp.13-22. URL : <http://www.rimath.saitama-u.ac.jp/research/33.html>. Réf. HAL : [hal-03540448](https://hal.archives-ouvertes.fr/hal-03540448)

73. Mahieu Benjamin, Schlich Pascal, Visalli Michel, Cardot Hervé (2021). A multiple-response chi-square framework for the analysis of Free-Comment and Check-All-That-Apply data. *Food Quality and Preference*, 93:104256. URL: <https://www.sciencedirect.com/science/article/pii/S0950329321001397>. DOI: <https://doi.org/10.1016/j.foodqual.2021.104256>. Réf. HAL: [hal-03355886](https://hal.archives-ouvertes.fr/hal-03355886)

74. Mardešić Pavao, Resman Maja (2021). Analytic moduli for parabolic Dulac germs. *Russian Mathematical Surveys*, 76(3):389-460. URL: <https://iopscience.iop.org/article/10.1070/RM10001>. DOI: <https://doi.org/10.1070/RM10001>. Réf. HAL: [hal-03467020](https://hal.archives-ouvertes.fr/hal-03467020) - OA hors HAL

75. Mardešić Pavao, Novikov Dmitry, Ortiz-Bobadilla Laura, Pontigo-Herrera Jessie (2021). Nilpotence of orbits under monodromy and the length of Melnikov functions. *Physica D: Nonlinear Phenomena*, 427:133017. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0167278921001743>. DOI: <https://doi.org/10.1016/j.physd.2021.133017>. Réf. HAL: [hal-03476651](https://hal.archives-ouvertes.fr/hal-03476651)

76. Mardešić Pavao, Resman Maja (2021). Realization of analytic moduli for parabolic Dulac germs. *Ergodic Theory and Dynamical Systems*, :1-55. 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

77. Mardešić Pavao, Resman M., Rolin Jean-Philippe, Županović V. (2021). Tubular neighborhoods of orbits of power-logarithmic germs. *Journal of Dynamics and Differential Equations*, :1-49. URL: <https://link.springer.com/article/10.1007%2Fs10884-019-09812-8>. DOI: <https://doi.org/10.1007/s10884-019-09812-8>. Réf. HAL: [hal-02384780](https://hal.archives-ouvertes.fr/hal-02384780)
78. Massuyeau Gwénaél, Moussard Delphine (2021). A splicing formula for the LMO invariant. *Canadian Journal of Mathematics = Journal Canadien de Mathématiques*, 73(6):1743-1770. URL : [A splicing formula for the LMO invariant | Canadian Journal of Mathematics | Cambridge Core](https://doi.org/10.1007/s10884-019-09812-8) . DOI : [10.4153/S0008414X20000668](https://doi.org/10.4153/S0008414X20000668). Réf. HAL: [hal-02436372](https://hal.archives-ouvertes.fr/hal-02436372) - [OA hors HAL](#)
79. Mignard Michaël, Schauenburg Peter (2021). Modular categories are not determined by their modular data. *Letters in Mathematical Physics*, 111(3). URL: <https://link.springer.com/article/10.1007%2Fs11005-021-01395-0>. DOI: <https://doi.org/10.1007/s11005-021-01395-0>. Réf. HAL: [hal-03283222](https://hal.archives-ouvertes.fr/hal-03283222) - [OA hors HAL](#)
80. Moser-Jauslin Lucy, Poloni Pierre-Marie (2021). Isomorphisms between cylinders over Danielewski surfaces. *Beiträge zur Algebra und Geometrie / Contributions to Algebra and Geometry*. URL: <https://link.springer.com/article/10.1007%2Fs13366-020-00548-x#citeas>. DOI: <https://doi.org/10.1007/s13366-020-00548-x>. Réf. HAL: [hal-03280531](https://hal.archives-ouvertes.fr/hal-03280531) - [OA hors HAL](#)
81. Moser-Jauslin Lucy, Terpereau Ronan, Borovoi Mikhail (2021). Real structures on horospherical varieties. *Michigan Mathematical Journal*, :1-38. 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](#)
82. Moser-Jauslin Lucy, Terpereau Ronan (2021). Real structures on symmetric spaces. *Proceedings of the American Mathematical Society*, :149. URL: <https://www.ams.org/journals/proc/2021-149-08/S0002-9939-2021-15520-2/>. DOI: <https://doi.org/10.1090/proc/15520>. Réf. HAL: [hal-02109615](https://hal.archives-ouvertes.fr/hal-02109615) - [OA HAL](#)
83. Ounajim Amine, Billot Maxime, Goudman Lisa, Louis Pierre-Yves, Slaoui Yousri, Roulaud Manuel, Bouche Bénédicte, Page Philippe, Lorgeoux Bertille, Baron Sandrine, Adjali Nihel, Nivole Kevin, Naiditch Nicolas, Wood Chantal, Rigoard Raphael, David Romain, Moens Maarten, Rigoard Philippe (2021). Machine Learning Algorithms Provide Greater Prediction of Response to Scs Than Lead Screening Trial: A Predictive AI-Based Multicenter Study. *Journal of Clinical Medicine*, 10(20):4764. URL: <https://www.mdpi.com/2077-0383/10/20/4764>. DOI: <https://doi.org/10.3390/jcm10204764>. Réf. HAL: [hal-03343630](https://hal.archives-ouvertes.fr/hal-03343630)
84. Ounajim Amine, Billot Maxime, Louis Pierre-Yves, Slaoui Yousri, Frasca Denis, Goudman Lisa, Roulaud Manuel, Naiditch Nicolas, Lorgeoux Bertille, Baron Sandrine, Nivole Kevin, Many Mathilde, Adjali Nihel, Page Philippe, Bouche Bénédicte, Charrier

Elodie, Poupin Laure, Rannou Delphine, De Montgazon Géraldine Brumauld, Roy-Moreau Brigitte, Wood Chantal, Rigoard Raphael, David Romain, Moens Maarten, Rigoard Philippe (2021). Finite Mixture Models Based on Pain Intensity, Functional Disability and Psychological Distress Composite Assessment Allow Identification of Two Distinct Classes of Persistent Spinal Pain Syndrome after Surgery Patients Related to Their Quality of Life. *Journal of Clinical Medicine*, 10(20):1-16. URL: <https://www.mdpi.com/2077-0383/10/20/4676>. DOI: <https://doi.org/10.3390/jcm10204676>. Réf. HAL: [hal-03343635](https://hal.archives-ouvertes.fr/hal-03343635) - [OA hors HAL](#)

85. Paris Luis, Rabenda Loïc (2021). Virtual and arrow Temperley–Lieb algebras, Markov traces, and virtual link invariants. *Journal of Knot Theory and Its Ramifications*, 30(06):2150041. URL: <https://www.worldscientific.com/doi/10.1142/S0218216521500413>. DOI: <https://doi.org/10.1142/S0218216521500413>. Réf. HAL: [hal-03467039](https://hal.archives-ouvertes.fr/hal-03467039)

86. Pascal Barbara, Vaiter Samuel, Pustelnik Nelly, Abry Patrice (2021). Automated Data-Driven Selection of the Hyperparameters for Total-Variation-Based Texture Segmentation. *Journal of Mathematical Imaging and Vision*. URL: <https://link.springer.com/article/10.1007%2Fs10851-021-01035-1>. DOI: <https://doi.org/10.1007/s10851-021-01035-1>. Réf. HAL: [hal-03301912](https://hal.archives-ouvertes.fr/hal-03301912) - [OA hors HAL](#)

87. Rigoard Philippe, Ounajim Amine, Goudman Lisa, Louis Pierre-Yves, Slaoui Yousri, Roulaud Manuel, Naiditch Nicolas, Bouche Bénédicte, Page Philippe, Lorgeoux Bertille, Baron Sandrine, Charrier Elodie, Poupin Laure, Rannou Delphine, De Montgazon Géraldine Brumauld, Roy-Moreau Brigitte, Grimaud Nelly, Adjali Nihel, Nivole Kevin, Many Mathilde, David Romain, Wood Chantal, Rigoard Raphael, Moens Maarten, Billot Maxime (2021). A Novel Multi-dimensional Clinical Response Index Dedicated to Improving Global Assessment of Pain in Patients with Persistent Spinal Pain Syndrome After Spinal Surgery, Based on a Real-life Prospective Multicentric Study (PREDIBACK) and Machine Learning. *Journal of Clinical Medicine*, 10(21):4910. URL: <https://www.mdpi.com/2077-0383/10/21/4910>. DOI: <https://doi.org/10.3390/jcm10214910>. Réf. HAL: [hal-03343619](https://hal.archives-ouvertes.fr/hal-03343619) - [OA hors HAL](#)

88. Rolin Jean-Philippe, Vlah Domagoj, Županović Vesna (2021). Oscillatory integrals and fractal dimension. *Bulletin des Sciences Mathématiques*, 168:102972. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0007449721000282?via%3Dihub>. DOI: <https://doi.org/10.1016/j.bulsci.2021.102972>. Réf. HAL: [hal-03301363](https://hal.archives-ouvertes.fr/hal-03301363) - [OA hors HAL](#)

89. Roussarie Robert (2021). Some Applications of the Poincaré–Bendixson Theorem. *Qualitative Theory of Dynamical Systems*, 20:64. URL: <https://link.springer.com/article/10.1007%2Fs12346-021-00498-2#citeas>. DOI: <https://doi.org/10.1007/s12346-021-00506-5>. Réf. HAL: [hal-03303255](https://hal.archives-ouvertes.fr/hal-03303255) - [OA hors HAL](#)

90. Sjöstrand Johannes, Vogel Martin (2021). General Toeplitz Matrices Subject to Gaussian Perturbations. *Annales Henri Poincaré*, 22:49-81. URL: <https://link.springer.com/article/10.1007/s00023-020-00970-w>. DOI: <https://doi.org/10.1007/s00023-020-00970-w>. Réf. HAL: [hal-02975968](https://hal.archives-ouvertes.fr/hal-02975968) - [OA HAL](#)

91. Sjöstrand Johannes, Vogel Martin (2021). Toeplitz band matrices with small random perturbations. *Indagationes Mathematicae*, 32(1):275-322. URL: <https://www.sciencedirect.com/science/article/abs/pii/S0019357720300938?via%3Dihub>. DOI: <https://doi.org/10.1016/j.indag.2020.09.001>. Réf. HAL: [hal-02975964](https://hal.archives-ouvertes.fr/hal-02975964) - [OA HAL](#)
92. Smirnov Aleksandr Olegovich, Matveev Vladimir Borisovich (2021). Finite-gap solutions of nonlocal equations in Ablowitz-Kaup-Newell-Segur hierarchy. *Ufa Mathematical Journal*, 13(2):81-98. URL: <https://matem.anrb.ru/sites/default/files/files/vupe50/Matveev.pdf>. DOI: <https://doi.org/10.13108/2021-13-2-81>. Réf. HAL: [hal-03538449](https://hal.archives-ouvertes.fr/hal-03538449) - [OA hors HAL](#)
93. Taflin Johan (2021). Blenders near polynomial product maps of C^2 . *Journal of the European Mathematical Society*, 23(11):3555-3589. URL: https://www.emis-ph.org/journals/show_abstract.php?issn=1435-9855&vol=23&iss=11&rank=3. DOI: <https://doi.org/10.4171/JEMS/1076>. Réf. HAL: [hal-03467633](https://hal.archives-ouvertes.fr/hal-03467633) - [OA hors HAL](#)
94. Van Damme Léo, Mauconduit F., Chambrion Thomas, Boulant Nicolas, Gras Vincent (2021). Universal nonselective excitation and refocusing pulses with improved robustness to off-resonance for Magnetic Resonance Imaging at 7 Tesla with parallel transmission. *Magnetic Resonance in Medicine*, 85(2):678-693. URL: <https://onlinelibrary.wiley.com/doi/10.1002/mrm.28441>. DOI: <https://doi.org/10.1002/mrm.28441>. Réf. HAL: [hal-03054212](https://hal.archives-ouvertes.fr/hal-03054212)
95. Zahabi Ali (2021). Quiver asymptotics and amoeba: Instantons on toric Calabi-Yau divisors. *Physical Review D*, 103(8):086024. URL: <https://journals.aps.org/prd/pdf/10.1103/PhysRevD.103.086024>. DOI: <https://doi.org/10.1103/PhysRevD.103.086024>. Réf. HAL: [hal-02899147](https://hal.archives-ouvertes.fr/hal-02899147) - [OA hors HAL](#)

Communications

1. Combot Thierry (2021). Elementary Integration of Superelliptic Integrals, ISSAC '21: International Symposium on Symbolic and Algebraic Computation, 19-23 juillet 2021, Virtual Event Russian Federation (Russie). 99-106. URL: <https://www.issac-conference.org/2021/>. DOI: <https://doi.org/10.1145/3452143.3465540>. Réf. HAL: [hal-03510201](https://hal.archives-ouvertes.fr/hal-03510201) - [OA hors HAL](#)
2. Sacchelli Ludovic, Caillau Jean-Baptiste, Combot Thierry, Pomet Jean-Baptiste (2021). Zermelo-Markov-Dubins with two trailers, 7th IFAC Workshop on Lagrangian and Hamiltonian Methods for Nonlinear Control, 11-13 octobre 2021, Berlin (Allemagne). 54(19):249-245. URL: <https://www.sciencedirect.com/journal/ifac-papersonline/>. DOI: <https://doi.org/10.1016/j.ifacol.2021.11.086>. Réf. HAL: [hal-03211710](https://hal.archives-ouvertes.fr/hal-03211710) - [OA HAL](#)

Responsabilités éditoriales

Letters in Mathematical Physics : managing editor: Dito Giuseppe ; associate editors : Matveev Vladimir et Semenov-Tian-Shansky Michel.

St. Petersburg Mathematical Journal et Functional Analysis and its Applications : membre de Comités de rédaction : Semenov-Tian-Shansky Michel.

Ouvrages ou chapitres ou directions d'ouvrages

1. De Maesschalck Peter, Dumortier Freddy, Roussarie Robert (2021). Canard Cycles, Cham, Springer International Publishing, 73. URL: <https://link.springer.com/book/10.1007/978-3-030-79233-6#authorsandaffiliationsbook>. DOI: <https://doi.org/10.1007/978-3-030-79233-6>. Réf. HAL: [hal-03476667](https://hal.archives-ouvertes.fr/hal-03476667)
2. Kimura Taro (2021). Instanton Counting, Quantum Geometry and Algebra, Springer International Publishing. URL: <https://link.springer.com/book/10.1007/978-3-030-76190-5>. DOI: <https://doi.org/10.1007/978-3-030-76190-5>. Réf. HAL: [hal-03368674](https://hal.archives-ouvertes.fr/hal-03368674) - [OA hors HAL](#)
3. Klein Christian, Sjöstrand Johannes, Stoilov Nikola (2021). Large $|k|$ behavior of d-bar problems for domains with a smooth boundary, *Partial Differential Equations, Spectral Theory, and Mathematical Physics*, Zuerich, Switzerland, European Mathematical Society Publishing House:267-275. URL: https://www.emis-ph.org/books/show_abstract.php?proj_nr=265&vol=1&rank=15. DOI: <https://doi.org/10.4171/ECR/18-1/15>. Réf. HAL: [hal-03509854](https://hal.archives-ouvertes.fr/hal-03509854) - [OA hors HAL](#)
4. Kuno Yusuke, Massuyeau Gwénaél, Tsuji Shunsuke (2021). Generalized Dehn twists in low-dimensional topology, *In A. Papadopoulos (dir.), Topology and Geometry: A Collection of Essays Dedicated to Vladimir G. Turaev*, Berlin, European Mathematical Society, 33:357-398. URL: https://www.emis-ph.org/books/book.php?proj_nr=266. Réf. HAL: [hal-02300028](https://hal.archives-ouvertes.fr/hal-02300028) - [OA hors HAL](#)
5. Semenov-Tian-Shansky Michel (2021). Quantum Toda lattice: a challenge for representation theory, *Integrability, Quantization, and Geometry: I. Integrable Systems*, AMS, 130.1:403-428. URL: <https://bookstore.ams.org/pspum-103-1/>. Réf. HAL: [hal-03537624](https://hal.archives-ouvertes.fr/hal-03537624)
6. Smirnov A.o., Pavlov M.v., Matveev Vladimir, Gerdjikov V.s. (2021). Finite-gap solutions of the Mikhailév equation, *Integrability, Quantization, and Geometry: I. Integrable Systems*, AMS, 103.1:429-450. URL: <https://bookstore.ams.org/pspum-103-1/>. Réf. HAL: [hal-03537593](https://hal.archives-ouvertes.fr/hal-03537593)