

Publications 2019

de l'Institut de Mathématiques de Bourgogne

Articles de revues

1. Alvarez Sébastien, Filimonov Dmitry, Kleptsyn Victor, Malicet Dominique, Meniño Carlos, Navas Andrés, Triestino Michele (2019). Groups with infinitely many ends acting analytically on the circle. *Journal of topology*, vol 12, n°4, 1315-1367 p. DOI: <https://doi.org/10.1112/topo.12118>. Réf. HAL: [hal-01178641](https://hal.archives-ouvertes.fr/hal-01178641)
2. Arbunich Jack, Klein Christian, Sparber Christof (2019). On a class of derivative Nonlinear Schrödinger-type equations in two spatial dimensions. *ESAIM: Mathematical Modelling and Numerical Analysis*, vol 53, n°5, 1477-1505 p.
URL: <https://www-esaim-m2an-org.proxy-scd.u-bourgogne.fr/articles/m2an/abs/2019/05/m2an180110/m2an180110.html>.
DOI: <https://doi.org/10.1051/m2an/2019018>. Réf. HAL: [hal-02303267](https://hal.archives-ouvertes.fr/hal-02303267)
3. Arcis Diego, Paris Luis (2019). Ordering Garside groups. *International Journal of Algebra and Computation*, vol 29, n°05, 861-883 p. URL: <https://www.worldscientific.com/doi/10.1142/S0218196719500322>.
DOI: <https://doi.org/10.1142/S0218196719500322>. Réf. HAL: [hal-02194489](https://hal.archives-ouvertes.fr/hal-02194489)
4. Arnal Didier, Chaabouni Mouna, Hfaiedh Mabrouka (2019). Formalité linéaire analytique. *Annales de la Faculté des Sciences de Toulouse. Mathématiques.*, vol 28, n°1, 129-143 p. URL: http://afst.cedram.org/item?id=AFST_2019_6_28_1_129_0.
DOI: <https://doi.org/10.5802/afst.1596>. Réf. HAL: [hal-02173775](https://hal.archives-ouvertes.fr/hal-02173775)
5. Arnal Didier, Selmi Mohamed (2019). Moment Map and Gelfand Transform for the Enveloping Algebra. *Journal of Lie Theory*, vol 29, n°1, 227-237 p. URL: <http://www.heldermann.de/JLT/JLT29/JLT291/jlt29010.htm>. Réf. HAL: [hal-02173488](https://hal.archives-ouvertes.fr/hal-02173488)
6. Arnal Didier, Currey Bradley, Dali Bechir (2019). The Plancherel Formula for an Inhomogeneous Vector Group. *Journal of Fourier Analysis and Applications*, vol 25, n°6, 2837-2876 p.
URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2F500041-019-09684-y#citeas>.
DOI: <https://doi.org/10.1007/s00041-019-09684-y>. Réf. HAL: [hal-02416178](https://hal.archives-ouvertes.fr/hal-02416178)
7. Assainova Olga, Klein Christian, Mclaughlin K., Miller P. (2019). A Study of the Direct Spectral Transform for the Defocusing Davey-Stewartson II Equation the Semiclassical Limit. *Communications on Pure and Applied Mathematics*, vol 72, n°7, 1474-1547 p. URL: <https://onlinelibrary-wiley-com.proxy-scd.u-bourgogne.fr/doi/abs/10.1002/cpa.21822>.
DOI: <https://doi.org/10.1002/cpa.21822>. Réf. HAL: [hal-02289479](https://hal.archives-ouvertes.fr/hal-02289479)
8. Attouch Hedy, Cabot Alexandre (2019). Convergence of a Relaxed Inertial Forward–

- Backward Algorithm for Structured Monotone Inclusions. *Applied Mathematics and Optimization*, vol 80, n°3, 547-598 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs00245-019-09584-z>. DOI: <https://doi.org/10.1007/s00245-019-09584-z>. Réf. HAL: hal-02173692
9. Attouch Hedy, Cabot Alexandre (2019). Convergence rate of a relaxed inertial proximal algorithm for convex minimization. *Optimization*, 1-32. URL: <https://www.tandfonline.com/doi/abs/10.1080/02331934.2019.1696337?scroll=top&needAccess=true&journalCode=gopt20>. DOI: <https://doi.org/10.1080/02331934.2019.1696337>. Réf. HAL: hal-02415789
10. Audoux Benjamin, Moussard Delphine (2019). Toward universality in degree 2 of the Kriker lift of the Kontsevich integral and the Lescop equivariant invariant. *International Journal of Mathematics*, vol 30, n°5, 1950021 p. URL: <https://www.worldscientific.com/doi/10.1142/S0129167X19500216>. DOI: <https://doi.org/10.1142/S0129167X19500216>. Réf. HAL: hal-02320375
11. Badreddine Zeinab (2019). Mass transportation on sub-Riemannian structures of rank two in dimension four. *Annales de l'Institut Henri Poincaré (C) Non Linear Analysis*, vol 36, n°3, 837-860 p. URL: <https://www.sciencedirect-com.proxy-scd.u-bourgogne.fr/science/article/pii/S0294144918301070?via%3Dihub>. DOI: <https://doi.org/10.1016/j.anihpc.2018.10.003>. Réf. HAL: hal-02416083
12. Bakir T., Bonnard Bernard, Rouot Jérémy (2019). Geometric Optimal Control Techniques to Optimize the Production of Chemical Reactors using Temperature Control. *Annual Reviews in Control*, vol 48, 178-192 p. DOI: <https://doi.org/10.1016/j.arcontrol.2019.09.005>. Réf. HAL: hal-02115732
13. Bakir Toufik, Bonnard Bernard, Rouot Jérémy (2019). A case study of optimal input-output system with sampled-data control: Ding et al. force and fatigue muscular control model. *Networks and Heterogeneous Media*, vol 14, n°1, 79-100 p. URL: <http://aims sciences.org//article/doi/10.3934/nhm.2019005>. DOI: <https://doi.org/10.3934/nhm.2019005>. Réf. HAL: hal-01779349
14. Barbara Abdessamad, Jourani Abderrahim, Vaiter Samuel (2019). Maximal Solutions of Sparse Analysis Regularization. *Journal of Optimization Theory and Applications*, vol 180, n°2, 374-396 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs10957-018-1385-3#citeas>. DOI: <https://doi.org/10.1007/s10957-018-1385-3>. Réf. HAL: hal-01467965
15. Bettiol Piernicola, Bonnard Bernard, Nolot Alice, Rouot Jérémy (2019). Sub-Riemannian geometry and swimming at low Reynolds number: the Copepod case. *ESAIM: Control, Optimisation and Calculus of Variations*, vol 25, n°9. URL: <https://www-esaim-cocv-org.proxy-scd.u-bourgogne.fr/articles/cocv/abs/2019/01/cocv170069/cocv170069.html>. DOI: <https://doi.org/10.1051/cocv/2017071>. Réf. HAL: hal-01442880
16. Blasco-Garcia Ruben, Martinez-Perez Conchita, Paris Luis (2019). Poly-freeness of even Artin groups of FC type. *Groups Geometry and Dynamics*, vol 13, n°1, 309-325 p.

DOI: <https://doi.org/10.4171/GGD/486>. Réf. HAL: <hal-01522437>

17. Bogomolov Fedor, Cheltsov Ivan, Dubouloz Adrien, Liendo Alvaro (2019). Easter Island volume. *Central European Journal of Mathematics*, vol 5, n°3, 611-621 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs40879-019-00364-1>. DOI: <https://doi.org/10.1007/s40879-019-00364-1>. Réf. HAL: <hal-02289015>

18. Bonatti Christian, Lodha Yash, Triestino Michele (2019). Hyperbolicity as an obstruction to smoothability for one-dimensional actions. *Geometry & Topology*, vol 23, n°4, 1841-1876 p. URL: <https://msp.org/gt/2019/23-4/p04.xhtml>. DOI: <https://doi.org/10.2140/gt.2019.23.1841>. Réf. HAL: <hal-02194613>

19. Bonatti Christian, Zhang Jinhua (2019). On the existence of non-hyperbolic ergodic measures as the limit of periodic measures. *Ergodic Theory and Dynamical Systems*, vol 39, n°11, 2932-2967 p. URL: <https://www-cambridge-org.proxy-scd.u-bourgogne.fr/core/journals/ergodic-theory-and-dynamical-systems/article/on-the-existence-of-nonhyperbolic-ergodic-measures-as-the-limit-of-periodic-measures/897B41F6811ABAB1087DCDB66BF53372#>. DOI: <https://doi.org/10.1017/etds.2017.146>. Réf. HAL: <hal-02318720>

20. Bonatti Christian, Zhang Jinhua (2019). Periodic measures and partially hyperbolic homoclinic classes. *Transactions of the American Mathematical Society*, vol 372, n°2, 755-802 p. URL: <http://www.ams.org.proxy-scd.u-bourgogne.fr/journals/tran/2019-372-02/S0002-9947-2019-07252-5/>. DOI: <https://doi.org/10.1090/tran/7252>. Réf. HAL: <hal-02194507>

21. Bonatti Christian, Da Luz Adriana (2019). Star fows and multisingular hyperbolicity. *Journal of the European Mathematical Society*. Réf. HAL: <hal-02370538>

22. Bonatti Christian, Grines V., Pochinka O. (2019). Topological classification of Morse–Smale diffeomorphisms on 3-manifolds. *Duke Mathematical Journal*, vol 168, n°13, 2507-2558 p. URL: <https://projecteuclid-org.proxy-scd.u-bourgogne.fr/euclid.dmj/1567821623#info>. DOI: <https://doi.org/10.1215/00127094-2019-0019>. Réf. HAL: <hal-02468888>

23. Bonatti Christian, Grines V. Z., Laudenbach Francois, Pochinka Olga (2019). Topological classification of Morse–Smale diffeomorphisms without heteroclinic curves on 3-manifolds. *Ergodic Theory and Dynamical Systems*, vol 39, n°9, 2403-2432 p. URL: <https://www-cambridge-org.proxy-scd.u-bourgogne.fr/core/journals/ergodic-theory-and-dynamical-systems/article/topological-classification-of-morsesmale-diffeomorphisms-without-heteroclinic-curves-on-3manifolds/D7DA49602057D1AF25444ABA5420B6C5#>. DOI: <https://doi.org/10.1017/etds.2017.129>. Réf. HAL: <hal-01467144>

24. Boussaid Nabile, Caponigro Marco, Chambrion Thomas (2019). Regular propagators of bilinear quantum systems. *Journal of Functional Analysis*. URL: <https://www.sciencedirect.com/science/article/pii/S0022123619304069?via%3Dihub>. DOI: <https://doi.org/10.1016/j.jfa.2019.108412>. Réf. HAL: <hal-01016299>

25. Cabot Alexandre, Jourani Abderrahim, Thibault Lionel, Zagrodny Dariusz (2019). The attainment set of the φ -envelope and genericity properties. *Mathematica Scandinavica*, vol 124, n°2, 203-246 p. URL: <https://www.mscaand.dk/article/view/110766>. Réf. HAL: [hal-01666630](https://hal.archives-ouvertes.fr/hal-01666630)
26. Cardot Hervé, De Moliner Anne, Goga Camelia (2019). Estimation of total electricity consumption curves by sampling in a finite population when some trajectories are partially unobserved. *Canadian Journal of Statistics*, vol 47, n°1, 65-89 p. URL: <https://onlinelibrary-wiley-com.proxy-scd.u-bourgogne.fr/doi/full/10.1002/cjs.11473>. DOI: <https://doi.org/10.1002/cjs.11473>. Réf. HAL: [hal-01996996](https://hal.archives-ouvertes.fr/hal-01996996)
27. Cardot Hervé, Lecuelle Guillaume, Schlich Pascal, Visalli Michel (2019). Estimating finite mixtures of semi-Markov chains: an application to the segmentation of temporal sensory data. *Journal of the Royal Statistical Society: Series C Applied Statistics*, vol 68, n°5, 1281-1303 p. URL: <https://rss-onlinelibrary-wiley-com.proxy-scd.u-bourgogne.fr/doi/full/10.1111/rssc.12356>. DOI: <https://doi.org/10.1111/rssc.12356>. Réf. HAL: [hal-02353089](https://hal.archives-ouvertes.fr/hal-02353089)
28. Cardot Hervé, Musolesi Antonio (2019). Modeling temporal treatment effects with zero inflated semi-parametric regression models: The case of local development policies in France. *Econometric Reviews*, 1-23. URL: <https://www.tandfonline.com/doi/abs/10.1080/07474938.2019.1690193?journalCode=ecr20>. DOI: <https://doi.org/10.1080/07474938.2019.1690193>. Réf. HAL: [hal-02394810](https://hal.archives-ouvertes.fr/hal-02394810)
29. Cascavita Karol L, Chouly Franz, Ern Alexandre (2019). Hybrid High-Order discretizations combined with Nitsche's method for Dirichlet and Signorini boundary conditions. *IMA Journal of Numerical Analysis*. Réf. HAL: [hal-02016378](https://hal.archives-ouvertes.fr/hal-02016378)
30. Chambrion Thomas, Thomann Laurent (2019). A topological obstruction to the controllability of nonlinear wave equations with bilinear control term. *SIAM Journal on Control and Optimization*, vol 57, n°4, 2315-2327 p. DOI: <https://doi.org/10.1137/18M1215207>. Réf. HAL: [hal-01876952](https://hal.archives-ouvertes.fr/hal-01876952)
31. Chen Zhen-Qing, Fang Shizan, Zhang Tusheng (2019). Small time asymptotics for Brownian motion with singular drift. *Proceedings of the American Mathematical Society*, vol 147, n°8, 3567-3578 p. URL: <https://www-ams-org.proxy-scd.u-bourgogne.fr/journals/proc/2019-147-08/S0002-9939-2019-14511-1/>. DOI: <https://doi.org/10.1090/proc/14511>. Réf. HAL: [hal-02316412](https://hal.archives-ouvertes.fr/hal-02316412)
32. Coburn Lewis, Hitrik Michael, Sjöstrand Johannes (2019). Positivity, complex FIOs, and Toeplitz operators. *Communications on Pure and Applied Analysis*, vol 1, n°3, 327-357 p. URL: <https://msp.org/paa/2019/1-3/p01.xhtml>. DOI: <https://doi.org/10.2140/paa.2019.1.327>. Réf. HAL: [hal-02303294](https://hal.archives-ouvertes.fr/hal-02303294)
33. Combot Thierry, Maciejewski Andrzej, Przybylska Maria (2019). Bi-homogeneity and integrability of rational potentials. *Journal of Differential Equations*. URL: <https://www.sciencedirect.com/science/article/pii/S0022039619306084?via%3Dihub>. DOI: <https://doi.org/10.1016/j.jde.2019.11.074>. Réf. HAL: [hal-02475003](https://hal.archives-ouvertes.fr/hal-02475003)

34. Crespo Siegfried, Fasondini Marco, Klein Christian, Stoilov Nikola, Vallée Corentin (2019). Multidomain spectral method for the Gauss hypergeometric function. *Numerical Algorithms*, 1-35. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007/s11075-019-00741-7>. DOI: <https://doi.org/10.1007/s11075-019-00741-7>. Réf. HAL: [hal-02194789](https://hal.archives-ouvertes.fr/hal-02194789)
35. Cumplido María, González-Meneses Juan, Silvero Marithania (2019). The Root Extraction Problem for Generic Braids. *Symmetry*, vol 11, n°11, 1327 p. URL: <https://www.mdpi.com/2073-8994/11/11/1327/htm>. DOI: <https://doi.org/10.3390/sym11111327>. Réf. HAL: [hal-02428538](https://hal.archives-ouvertes.fr/hal-02428538)
36. Cénac Peggy, Le Ny Arnaud, De Loynes Basile, Offret Yoann (2019). Persistent Random Walks. II. Functional Scaling Limits. *Journal of Theoretical Probability*, vol 32, n°2, 633-658 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs10959-018-0852-y>. DOI: <https://doi.org/10.1007/s10959-018-0852-y>. Réf. HAL: [hal-01404663](https://hal.archives-ouvertes.fr/hal-01404663)
37. Darné Jacques (2019). On the Andreadakis Problem for Subgroups of IA_n . *International Mathematics Research Notices*, n°rnz237 URL: <https://academic.oup.com/imrn/advance-article-abstract/doi/10.1093/imrn/rnz237/5613141>. DOI: <https://doi.org/10.1093/imrn/rnz237>. Réf. HAL: [hal-02471026](https://hal.archives-ouvertes.fr/hal-02471026)
38. Darné Jacques (2019). On the stable Andreadakis problem. *Journal of Pure and Applied Algebra*, vol 223, n°12, 5484-5525 p. URL: <https://www.sciencedirect.com.proxy-scd.u-bourgogne.fr/science/article/pii/S002240491930101X?via%3Dihub>. DOI: <https://doi.org/10.1016/j.jpaa.2019.04.010>. Réf. HAL: [hal-02468983](https://hal.archives-ouvertes.fr/hal-02468983)
39. Dolecki Szymon, Greco Gabriele (2019). The forgotten mathematical legacy of Peano. *Dissertationes Mathematicae*, vol 537, 1-77 p. URL: <https://www.impan.pl/en/publishing-house/journals-and-series/dissertationes-mathematicae/all/537/0/112953/the-forgotten-mathematical-legacy-of-peano>. DOI: <https://doi.org/10.4064/dm769-4-2018>. Réf. HAL: [hal-02174864](https://hal.archives-ouvertes.fr/hal-02174864)
40. Dubouloz Adrien, Pauli Sabrina, Østvær Paul Arne (2019). \mathbb{A}^1 -contractibility of affine modifications. *International Journal of Mathematics*, 1950069. URL: <https://www.worldscientific.com/doi/10.1142/S0129167X19500691>. DOI: <https://doi.org/10.1142/S0129167X19500691>. Réf. HAL: [hal-02421194](https://hal.archives-ouvertes.fr/hal-02421194)
41. Dubouloz Adrien, Kishimoto Takashi (2019). Cylinders in Mori Fiber Spaces: Forms of the quintic del Pezzo threefold. *Annales de l'Institut Fourier*, vol 69, n°6, 2377-2393 p. URL: https://aif.centre-mersenne.org/item/AIF_2019_69_6_2377_0/. DOI: <https://doi.org/10.5802/aif.3297>. Réf. HAL: [hal-02417604](https://hal.archives-ouvertes.fr/hal-02417604)
42. Dubouloz Adrien, Kishimoto Takashi (2019). Deformations of \mathbb{A}^1 -cylindrical varieties. *Mathematische Annalen*, vol 373, n°3-4, 1135-1149 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs00208-018-1774-9>. DOI: <https://doi.org/10.1007/s00208-018-1774-9>. Réf. HAL: [hal-01622447](https://hal.archives-ouvertes.fr/hal-01622447)

43. Dubouloz Adrien (2019). Exotic G_a -quotients of $SL_2 \times \mathbb{A}^1$. *Central European Journal of Mathematics*. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs40879-019-00355-2#citeas>. DOI: <https://doi.org/10.1007/s40879-019-00355-2>. Réf. HAL: [hal-02194602](https://hal.archives-ouvertes.fr/hal-02194602)
44. Dubouloz Adrien (2019). Affine surfaces with isomorphic \mathbb{A}^2 -cylinders. *Kyoto Journal of Mathematics*, vol 59, n°1, 181-193 p. URL: <https://projecteuclid-org.proxy-scd.u-bourgogne.fr/euclid.kjm/1534838488>. DOI: <https://doi.org/10.1215/21562261-2018-0005>. Réf. HAL: [hal-02166793](https://hal.archives-ouvertes.fr/hal-02166793)
45. Da Silva Clayton, Jacquemard Alain, Teixeira Marco (2019). Periodic Solutions of a Class of Non-autonomous Discontinuous Second-Order Differential Equations. *Journal of Dynamical and Control Systems*, 1-28. URL: <https://link.springer.com/article/10.1007%2Fs10883-018-9426-7>. DOI: <https://doi.org/10.1007/s10883-018-9426-7>. Réf. HAL: [hal-02094522](https://hal.archives-ouvertes.fr/hal-02094522)
46. De Bièvre Stephan, Rota Nodari Simona (2019). Orbital stability via the energy-momentum method: the case of higher dimensional symmetry groups. *Archive for Rational Mechanics and Analysis*, vol 231, n°1, 233-284 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs00205-018-1278-5#citeas>. DOI: <https://doi.org/10.1007/s00205-018-1278-5>. Réf. HAL: [hal-01312534](https://hal.archives-ouvertes.fr/hal-01312534)
47. Faenzi Daniele, Polizzi Francesco, Vallès Jean (2019). Triple planes with $p_g=q=0$. *Transactions of the American Mathematical Society*, vol 371, 589-639 p. URL: <http://www.ams.org.proxy-scd.u-bourgogne.fr/journals/tran/2019-371-01/S0002-9947-2018-07276-2/>. DOI: <https://doi.org/10.1090/tran/7276>. Réf. HAL: [hal-01961582](https://hal.archives-ouvertes.fr/hal-01961582)
48. Faenzi Daniele (2019). Ulrich bundles on K_3 surfaces. *Algebra & Number Theory*, vol 13, n°6, 1443-1454 p. URL: <https://msp.org/ant/2019/13-6/po8.xhtml>. DOI: <https://doi.org/10.2140/ant.2019.13.1443>. Réf. HAL: [hal-02309330](https://hal.archives-ouvertes.fr/hal-02309330)
49. Frauendiener Jörg, Jaber Carine, Klein Christian (2019). Efficient computation of multidimensional theta functions. *Journal of Geometry and Physics*, vol 141, 147-158 p. URL: <https://www.sciencedirect-com.proxy-scd.u-bourgogne.fr/science/article/pii/S0393044019300555?via%3Dihub>. DOI: <https://doi.org/10.1016/j.geomphys.2019.03.011>. Réf. HAL: [hal-02173551](https://hal.archives-ouvertes.fr/hal-02173551)
50. Gaillard Pierre (2019). Rational Solutions to the Boussinesq Equation. *Fundamental Journal of Mathematics and Applications*, vol 2, n°1, 1-4 p. URL: <https://dergipark.org.tr/fujma/issue/45834/512333>. DOI: <https://doi.org/10.33401/fujma.512333>. Réf. HAL: [hal-02194575](https://hal.archives-ouvertes.fr/hal-02194575)
51. Hashimoto Koji, Kimura Taro, Wu Xi (2019). Boundary conditions of Weyl semimetals. *Progress of Theoretical and Experimental Physics*, vol 2019, n°2, 029201 p. URL: <https://academic.oup.com/ptep/article/2019/2/029201/5315746>. DOI: <https://doi.org/10.1093/ptep/pty131>. Réf. HAL: [hal-02470503](https://hal.archives-ouvertes.fr/hal-02470503)
52. Hector Gilbert, Langevin Rémi, Walczak Paweł (2019). Topological canal foliations. *Journal of the Mathematical Society of Japan*, vol 71, n°1, 43-63 p. URL:

<https://projecteuclid-org.proxy-scd.u-bourgogne.fr/euclid.jmsj/1539590425>.

DOI: <https://doi.org/10.2969/jmsj/78117811>. Réf. HAL: [hal-02167374](https://hal.archives-ouvertes.fr/hal-02167374)

53. Herrmann Samuel, Zucca Cristina (2019). Exact Simulation of the First-Passage Time of Diffusions. *Journal of Scientific Computing*, vol 79, n°3, 1477-1504 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs10915-018-00900-3>. DOI: <https://doi.org/10.1007/s10915-018-00900-3>. Réf. HAL: [hal-02173732](https://hal.archives-ouvertes.fr/hal-02173732)

54. Irmak Elmas, Paris Luis (2019). Injective homomorphisms of mapping class groups of non-orientable surfaces. *Geometriae Dedicata*, vol 198, n°1, 149-170 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs10711-018-0334-5>. DOI: <https://doi.org/10.1007/s10711-018-0334-5>. Réf. HAL: [hal-02173806](https://hal.archives-ouvertes.fr/hal-02173806)

55. Javanpeykar Ariyan, Langlois Kevin, Terpereau Ronan (2019). Horospherical stacks. *Münster Journal of Mathematics*, vol 12, n°1, 1-29 p. URL: https://www.uni-muenster.de/FB10/mjm/vol_12/mjm_vol_12_01.pdf. DOI: <https://doi.org/10.17879/85169767804>. Réf. HAL: [hal-01620380](https://hal.archives-ouvertes.fr/hal-01620380)

56. Jourani Abderrahim, Vilches Emilio (2019). A differential equation approach to implicit sweeping processes. *Journal of Differential Equations*, vol 266, n°8, 5168-5184 p. URL: <https://www-sciencedirect-com.proxy-scd.u-bourgogne.fr/science/article/pii/S0022039618306120>. DOI: <https://doi.org/10.1016/j.jde.2018.10.024>. Réf. HAL: [hal-01961594](https://hal.archives-ouvertes.fr/hal-01961594)

57. Kimura Taro, Ozaki Sho (2019). Conformal field theory analysis of the QCD Kondo effect. *Physical Review D*, vol 99, n°1, 014040 p. URL: <https://journals.aps.org/prd/pdf/10.1103/PhysRevD.99.014040>. DOI: <https://doi.org/10.1103/PhysRevD.99.014040>. Réf. HAL: [hal-02470477](https://hal.archives-ouvertes.fr/hal-02470477)

58. Kimura Taro, Sugimoto Yuji (2019). Quantum mirror curve of periodic chain geometry. *Journal of High Energy Physics*, vol 2019, n°4, 147 p. URL: [https://link-springer-com.proxy-scd.u-bourgogne.fr/content/pdf/10.1007/JHEP04\(2019\)147.pdf](https://link-springer-com.proxy-scd.u-bourgogne.fr/content/pdf/10.1007/JHEP04(2019)147.pdf). DOI: [https://doi.org/10.1007/JHEP04\(2019\)147](https://doi.org/10.1007/JHEP04(2019)147). Réf. HAL: [hal-02470487](https://hal.archives-ouvertes.fr/hal-02470487)

59. Kimura Taro, Zhu Rui-Dong (2019). Web construction of ABCDEFG and affine quiver gauge theories. *Journal of High Energy Physics*, vol 2019, n°9, 025 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/content/pdf/10.1007%2FJHEP09%282019%29025.pdf>. DOI: [https://doi.org/10.1007/JHEP09\(2019\)025](https://doi.org/10.1007/JHEP09(2019)025). Réf. HAL: [hal-02470448](https://hal.archives-ouvertes.fr/hal-02470448)

60. Kitanine Nikolai, Kulkarni Giridhar (2019). Thermodynamic limit of the two-spinon form factors for the zero field XXX chain. *SciPost Phys.*, vol 6, n°6, 076 p. DOI: <https://doi.org/10.21468/SciPostPhys.6.6.076>. Réf. HAL: [hal-02088705](https://hal.archives-ouvertes.fr/hal-02088705)

61. Klein Christian, Stoilov Nikola (2019). Numerical scattering for the defocusing Davey–Stewartson II equation for initial data with compact support. *Nonlinearity*, vol 32, n°11, 4258-4280 p. URL: <https://iopscience-iop-org.proxy-scd.u-bourgogne.fr/article/10.1088/1361-6544/ab28c6>. DOI: <https://doi.org/10.1088/1361-6544/ab28c6>. Réf. HAL: [hal-02311596](https://hal.archives-ouvertes.fr/hal-02311596)

62. Klein Christian, Mclaughlin Ken, Stoilov Nikola (2019). Spectral approach to the scattering map for the semi-classical defocusing Davey–Stewartson II equation. *Physica D: Nonlinear Phenomena*, vol 400, 132126 p. URL: <https://www-sciencedirect-com.proxy-scd.u-bourgogne.fr/science/article/pii/S0167278918303142?via%3Dihub>. DOI: <https://doi.org/10.1016/j.physd.2019.05.006>. Réf. HAL: <hal-02353053>
63. Laterveer Robert, Nagel Jan, Peters Chris (2019). On complete intersections in varieties with finite-dimensional motive. *Quarterly Journal of Mathematics*, vol 70, n°1, 71-104 p. URL: <https://academic.oup.com/qjmath/article-abstract/70/1/71/5070382?redirectedFrom=fulltext>. DOI: <https://doi.org/10.1093/qmath/hay038>. Réf. HAL: <hal-02174842>
64. Le Ferrand Hervé (2019). The rational iteration method by Georges Lemaître. *Numerical Algorithms*, vol 80, n°1, 235-251 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs11075-018-0551-x#citeas>. DOI: <https://doi.org/10.1007/s11075-018-0551-x>. Réf. HAL: <hal-01803927>
65. Liendo Alvaro, Petitjean Charlie (2019). Uniformly Rational Varieties with Torus Action. *Transformation Groups*, vol 24, n°1, 149-153 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs00031-017-9451-8>. DOI: <https://doi.org/10.1007/s00031-017-9451-8>. Réf. HAL: <hal-02469018>
66. Malicet Dominique, Mann Kathryn, Rivas Cristóbal, Triestino Michele (2019). Ping-pong configurations and circular orders on free groups. *Groups Geometry and Dynamics*, vol 13, n°4, 1195-1218 p. URL: https://www.ems-ph.org/journals/show_abstract.php?issn=1661-7207&vol=13&iss=4&rank=3. DOI: <https://doi.org/10.4171/GGD/519>. Réf. HAL: <hal-01583550>
67. Mardešić Pavao, Novikov Dmitry, Ortiz-Bobadilla Laura, Pontigo-Herrera Jessie (2019). Godbillon–Vey sequence and Françoise algorithm. *Bulletin des Sciences Mathématiques*, vol 153, 72-85 p. URL: <https://doi.org/10.1016/j.bulsci.2019.02.001>. DOI: <https://doi.org/10.1016/j.bulsci.2019.02.001>. Réf. HAL: <hal-02094588>
68. Mardešić Pavao, Novikov Dmitry, Ortiz-Bobadilla Laura, Pontigo-Herrera Jessie (2019). Infinite orbit depth and length of Melnikov functions. *Annales de l'Institut Henri Poincaré (C) Non Linear Analysis*, vol 36, n°7, 1941-1957 p. URL: <https://www-sciencedirect-com.proxy-scd.u-bourgogne.fr/science/article/pii/S0294144919300770>. DOI: <https://doi.org/10.1016/j.anihpc.2019.07.003>. Réf. HAL: <hal-02288935>
69. Mardešić Pavao, Resman Maja, Rolin Jean-Philippe, Županović Vesna (2019). The Fatou coordinate for parabolic Dulac germs. *Journal of Differential Equations*, vol 266, n°6, 3479-3513 p. URL: <https://www-sciencedirect-com.proxy-scd.u-bourgogne.fr/science/article/pii/S0022039618305291?via%3Dihub>. DOI: <https://doi.org/10.1016/j.jde.2018.09.008>. Réf. HAL: <hal-01962092>
70. Mardešić Pavao, Resman M., Rolin Jean-Philippe, Županović V. (2019). Tubular neighborhoods of orbits of power-logarithmic germs. *Journal of Dynamics and Differential Equations*, 1-49. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/science/article/pii/S0022039618305291?via%3Dihub>

bourgogne.fr/article/10.1007/s10884-019-09812-8#citeas.

DOI: <https://doi.org/10.1007/s10884-019-09812-8>. Réf. HAL: [hal-02384780](https://hal.archives-ouvertes.fr/hal-02384780)

71. Matveev Vladimir, Semenov-Tian-Shansky Michel (2019). In memoriam: Boris Dubrovin. *Letters in Mathematical Physics*, vol 109, n°6, 1269-1270 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs11005-019-01178-8>.

DOI: <https://doi.org/10.1007/s11005-019-01178-8>. Réf. HAL: [hal-02319034](https://hal.archives-ouvertes.fr/hal-02319034)

72. Matveev Vladimir, Smirnov A. (2019). Two-Phase Periodic Solutions to the AKNS Hierarchy Equations. *Journal of Mathematical Sciences*, vol 242, n°5, 722-741 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007/s10958-019-04510-8#citeas>. DOI: <https://doi.org/10.1007/s10958-019-04510-8>. Réf. HAL: [hal-02469321](https://hal.archives-ouvertes.fr/hal-02469321)

73. Moser-Jauslin Lucy (2019). Infinite families of inequivalent real circle actions on affine four-space. *Épjournal de Géométrie Algébrique*, vol 3. Réf. HAL: [hal-01826458](https://hal.archives-ouvertes.fr/hal-01826458)

74. Moussard Delphine (2019). Finite type invariants of knots in homology 3–spheres with respect to null LP–surgeries. *Geometry & Topology*, vol 23, n°4, 2005-2050 p. URL: <https://msp.org/gt/2019/23-4/p07.xhtml>.

DOI: <https://doi.org/10.2140/gt.2019.23.2005>. Réf. HAL: [hal-02303384](https://hal.archives-ouvertes.fr/hal-02303384)

75. Rivas Cristobal, Triestino Michele (2019). One-dimensional actions of Higman's group. *Discrete Analysis*. URL: <https://discreteanalysisjournal.com/article/11151>. DOI: <https://doi.org/10.19086/da.11151>. Réf. HAL: [hal-02473032](https://hal.archives-ouvertes.fr/hal-02473032)

76. Vilches Emilio (2019). Existence and Lyapunov Pairs for the Perturbed Sweeping Process Governed by a Fixed Set. *Set-Valued and Variational Analysis*, vol 27, n°2, 569-583 p. URL: <https://link-springer-com.proxy-scd.u-bourgogne.fr/article/10.1007%2Fs11228-018-0480-9>.

DOI: <https://doi.org/10.1007/s11228-018-0480-9>. Réf. HAL: [hal-02194585](https://hal.archives-ouvertes.fr/hal-02194585)

Communications avec actes internationales

1. Bakir Toufik, Bonnard Bernard, Rouot Jérémy (2019). Connection between singular arcs in optimal control using bridges. Physical occurrence and Mathematical model, CDC 2019 - 58th Conference on Decision and Control, 11-13 décembre 2019, Nice (France). Réf. HAL: [hal-02050014](https://hal.archives-ouvertes.fr/hal-02050014)

2. Boussaid Nabile, Caponigro Marco, Chambrion Thomas (2019). On the Ball-Marsden-Slemrod obstruction for bilinear control systems, 58 th IEEE Conference on Decision and Control, 11-13 décembre 2019, Nice (France). Proceedings of the 58th Conference on Decision and Control. URL: <https://cdc2019.ieeecs.org/>. Réf. HAL: [hal-01537743](https://hal.archives-ouvertes.fr/hal-01537743)

3. Chambrion Thomas, Thomann Laurent (2019). Obstruction to the bilinear control of the Gross-Pitaevskii equation: an example with an unbounded potential, Joint 8th IFAC Symposium on Mechatronic Systems and 11th IFAC Symposium on Nonlinear Control

Systems, 4-6 septembre 2019, Vienne (Autriche). 52(16):304 - 309. URL: <http://www.mechatronicsnolcos2019.org/>.

DOI: <https://doi.org/10.1016/j.ifacol.2019.11.796>. Réf. HAL: [hal-02063308](https://hal.archives-ouvertes.fr/hal-02063308)

4. Combot Thierry (2019). Symbolic integration of hyperexponential 1-forms, ISSAC '19: Proceedings of the 2019 on International Symposium on Symbolic and Algebraic Computation, 15-18 juillet 2019, Beijing (Chine).

URL: <https://dl.acm.org/doi/proceedings/10.1145/3326229>. Réf. HAL: [hal-02468965](https://hal.archives-ouvertes.fr/hal-02468965)

5. Deledalle Charles-Alban, Papadakis Nicolas, Salmon Joseph, Vaiter Samuel (2019). Refitting solutions promoted by l_{12} sparse analysis regularization with block penalties, International Conference on Scale Space and Variational Methods in Computer Vision, 30 juin 2019, Hofgeismar (Allemagne). (11603). Réf. HAL: [hal-02059006](https://hal.archives-ouvertes.fr/hal-02059006)

6. Sternheimer Daniel (2019). Fond memories of Julian and Clarice, especially involving Moshe Flato and Noriko Sakurai, Julian Schwinger Centennial Conference, 7-12 février 2019, National University of Singapore (Singapour). 271-283. URL: https://www.worldscientific.com/doi/abs/10.1142/9789811213144_0018.

DOI: https://doi.org/10.1142/9789811213144_0018. Réf. HAL: [hal-02423593](https://hal.archives-ouvertes.fr/hal-02423593)

Communications sans actes internationales

1. Boussaid Nabile, Caponigro Marco, Chambrion Thomas (2019). Impulsive control of the bilinear Schrödinger equation: propagators and attainable sets, 58th Conference on Decision and Control, 11-13 décembre 2019, Nice (France). URL: <https://cdc2019.ieeecss.org/>. Réf. HAL: [hal-02074801](https://hal.archives-ouvertes.fr/hal-02074801)

2. Sutula Danas, Elouneq Aflah, Sensale Marco, Chouly Franz, Chambert Jérôme, Lejeune Arnaud, Baroli Davide, Hauseux Paul, Bordas Stéphane, Jacquet Emmanuelle (2019). Parameter identification problem in bimaternal human skin and sensitivity analysis: Uncertainties in biomechanics of skin, Congrès Français de Mécanique, 26-30 août 2019, Brest (France). Congrès Français de Mécanique. Réf. HAL: [hal-02376994](https://hal.archives-ouvertes.fr/hal-02376994)

3. Elouneq Aflah, Sutula Danas, Sensale Marco, Chouly Franz, Chambert Jérôme, Lejeune Arnaud, Baroli Davide, Hauseux Paul, Bordas Stéphane, Jacquet Emmanuelle (2019). Mechanical parameters identification of keloid and surrounding healthy skin using Digital Image Correlation measurements in vivo, 24ème Congrès de Mécanique CFM, 26-30 août 2019, Brest (France). url: <https://cfm2019.sciencesconf.org/245142>. Réf. HAL: [hal-02353019](https://hal.archives-ouvertes.fr/hal-02353019)

4. Massias Mathurin, Vaiter Samuel, Gramfort Alexandre, Salmon Joseph (2019). Exploiting regularity in sparse Generalized Linear Models, SPARS 2019 - Signal Processing with Adaptive Sparse Structured Representations, 1-4 juillet 2019, Toulouse (France). URL: <http://www.spars-workshop.org/en/index.html>. Réf. HAL: [hal-02288859](https://hal.archives-ouvertes.fr/hal-02288859)

Édition d'un journal

1. *Letters in Mathematical Physics*, Managing editor: Dito Giuseppe.

Ouvrages ou chapitres ou directions d'ouvrages de portée internationale

1. Asok Aravind, Déglise Frédéric, Nagel Jan (2019). The homotopy Leray spectral sequence, *Motivic homotopy theory and refined enumerative geometry (co-edited with Federico Binda, Marc Levine, and Oliver Röndigs)*, AMS, vol Contemporary Mathematics. Réf. HAL: [hal-02367089](https://hal.archives-ouvertes.fr/hal-02367089)

2. Brown Aaron, Malicet Dominique, Obata Davi, Santiago Bruno, Triestino Michele, Alvarez Sébastien, Roldan Mario (2019). Entropy, Lyapunov exponents, and rigidity of group actions, vol 33, 1-197 p. URL: https://ensaios.sbm.org.br/wp-content/uploads/sites/14/2019/07/em_33.pdf. Réf. HAL: [hal-02473154](https://hal.archives-ouvertes.fr/hal-02473154)

3. Cisinski Denis-Charles, Déglise Frédéric (2019). Triangulated categories of mixed motives, Springer, vol Springer Monographs in Mathematics. DOI: <https://doi.org/10.1007/978-3-030-33242-6>. Réf. HAL: [hal-02367118](https://hal.archives-ouvertes.fr/hal-02367118)

4. Sjöstrand Johannes (2019). Non-Self-Adjoint Differential Operators, Spectral Asymptotics and Random Perturbations, Birkhauser, vol 14. URL: <https://link.springer.com/book/10.1007%2F978-3-030-10819-9>. DOI: <https://doi.org/10.1007/978-3-030-10819-9>. Réf. HAL: [hal-02391790](https://hal.archives-ouvertes.fr/hal-02391790)

5. Sternheimer Daniel (2019). The Reasonable Effectiveness of Mathematical Deformation Theory in Physics, *In Piotr Kielanowski, Anatol Odziejewicz, Emma Previato (dir.), Geometric Methods in Physics XXXVI Workshop and Summer School, Białowieża, Poland, 2017*, Springer International Publishing. URL: <https://www.springerprofessional.de/en/geometric-methods-in-physics-xxxvi/16542368?searchResult=1.978-3-030-01155-o&searchBackButton=true&tocPage=2#TOC>. Réf. HAL: [hal-02194799](https://hal.archives-ouvertes.fr/hal-02194799)