

1. Produits et activités de la recherche de l'équipe Géométrie

1.1 Production de connaissances et activités concourant au rayonnement et à l'attractivité scientifique de l'équipe Géométrie

1.1.1. Journaux, revues

Articles publiés dans des revues à comité de lecture - Équipe Géométrie

- [1] Thomas BARTHELMÉ, Bruno COLBOIS, Mickaël CRAMPON et Patrick VEROVIC : Laplacian and spectral gap in regular Hilbert geometries. *Tohoku Math. J. (2)*, 66(3):377–407, 2014.
- [2] Daniel BELTITA, Tomasz GOLINSKI, George JAKIMOWICZ et Fernand PELLETIER : Banach-Lie groupoids and generalized inversion. *Journal of Functional Analysis*, 276, 2019.
- [3] Frédéric BIHAN : Maximally positive polynomial systems supported on circuits. *J. Symbolic Comput.*, 68(part 2):61–74, 2015.
- [4] Frédéric BIHAN : Irrational mixed decomposition and sharp fewnomial bounds for tropical polynomial systems. *Discrete Comput. Geom.*, 55(4):907–933, 2016.
- [5] Frédéric BIHAN et Alicia DICKENSTEIN : Descartes' rule of signs for polynomial systems supported on circuits. *Int. Math. Res. Not. IMRN*, 22:6867–6893, 2017.
- [6] Frédéric BIHAN, Alicia DICKENSTEIN et Magalí GIAROLI : Lower bounds for positive roots and regions of multistationarity in chemical reaction networks. *À paraître dans Journal of Algebra*, [arXiv:1807.05157](#), 30 pages, 2018.
- [7] Frédéric BIHAN, Alicia DICKENSTEIN et Magali GIAROLLI : Regions of multistationarity in cascades of Goldbeter-Koshland loops. *A. J. Math. Biol.*, [arXiv:1807.08400](#), 78(1115), 2019.
- [8] Frédéric BIHAN et Boulos EL HILANY : A sharp bound on the number of real intersection points of a sparse plane curve with a line. *J. Symbolic Comput.*, 81:88–96, 2017.
- [9] Frédéric BIHAN, Francisco SANTOS et Pierre-Jean SPAENLEHAUER : A Polyhedral Method for Sparse Systems with Many Positive Solutions. *SIAM J. Appl. Algebra Geom.*, 2(4):620–645, 2018.
- [10] Frédéric BIHAN et Ivan SOPRUNOV : Criteria for strict monotonicity of the mixed volume of convex polytopes. *À paraître dans Advances in Geometry*, [arXiv:1702.07676](#), 18 pages, 2017.
- [11] Marcin BILSKI, Krzysztof KURDYKA, Adam PARUSIŃSKI et Guillaume ROND : Higher order approximation of analytic sets by topologically equivalent algebraic sets. *Math. Z.*, 288(3-4):1361–1375, 2018.
- [12] Patrick CABAU et Fernand PELLETIER : Integrability on direct limit of Banach manifolds. *À paraître dans Ann. Faculté des sciences Toulouse*, [arXiv:140.371v3](#), 2019.
- [13] Jean-Baptiste CAMPESATO, Toshizumi FUKUI, Adam PARUSIŃSKI et Krzysztof KURDYKA : Arc spaces, motivic measure and Lipschitz geometry of real algebraic sets. *À paraître dans Math. Annalen*, [arXiv:1807.05160](#), 36 pages, 2018.
- [14] Pierrette CASSOU-NOGUÈS et Michel RAIBAUT : Newton transformations and the motivic Milnor fiber of a plane curve. *Singularities, Algebraic Geometry, Commutative Algebra, and Related Topics : Festschrift for Antonio Campillo on the Occasion of his 65th Birthday*, Springer International Publishing, pages 145–189, 2018.
- [15] Jorge CELY et Michel RAIBAUT : On the commutativity of pull-back and push-forward functors on motivic constructible functions. *À paraître dans The Journal of Symbolic Logic*, [arXiv:1811.06850](#), 28 pages, 2019.
- [16] Raf CLUCKERS, Georges COMTE et François LOESER : Non-Archimedean Yomdin-Gromov parametrizations and points of bounded height. *Forum Math. Pi*, 3:e5, 60 pages, 2015.
- [17] Raf CLUCKERS, Georges COMTE, Daniel J. MILLER, Jean-Philippe ROLIN et Tamara SERVI : Integration of oscillatory and subanalytic functions. *Duke Math. J.*, 167(7):1239–1309, 2018.
- [18] Raf CLUCKERS, Immanuel HALUPCZOK, François LOESER et Michel RAIBAUT : Distributions and wave front sets in the uniform non-archimedean setting. *Trans. London Math. Soc.*, 5(1):97–131, 2018.

- [19] Bruno COLBOIS et Patrick VEROVIC : Two properties of volume growth entropy in Hilbert geometry. *Geom. Dedicata*, 173:163–175, 2014.
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- [24] Si Tiep DINH et Krzysztof KURDYKA : Horizontal gradient of polynomial functions for the standard Engel structure on \mathbb{R}^4 . *J. Dyn. Control Syst.*, 22(1):15–34, 2016.
- [25] Boulos EL HILANY : Characterization of circuits supporting polynomial systems with the maximal number of positive solutions. *Discrete Comput. Geom.*, 58(2):355–370, 2017.
- [26] Boulos EL HILANY : Constructing polynomial systems with many positive solutions using tropical geometry. *Rev. Mat. Complut.*, 31(2):525–544, 2018.
- [27] Lorenzo FANTINI et Michel RAIBAUT : Motivic and analytic nearby fibers at infinity and bifurcation sets. *À paraître dans Arc scheme and singularities*, World Scientific Publishing, [arXiv:1810.06253](https://arxiv.org/abs/1810.06253), 18 pages, 2018.
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- [29] Christelle GUICHARD et Jean-Louis VERGER-GAUGRY : On Salem numbers, expansive polynomials and Stieltjes continued fractions. *J. Théor. Nombres Bordeaux*, 27:769–804, 2015.
- [30] Zbigniew JELONEK, Wojciech KUCHARZ et Krzysztof KURDYKA : Vector bundles and blowups. *In Analytic and algebraic geometry. 2*, pages 75–78. Łódź Univ. Press, Łódź, 2017.
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- [32] Gareth JONES, Jonathan KIRBY, Olivier LE GAL et Tamara SERVI : On local definability of holomorphic functions. *Quarterly Journal of Mathematics*, 1:1–18, 2019.
- [33] Pascal KOIRAN, Natacha PORTIER et Sébastien TAVENAS : On the intersection of a sparse curve and a low-degree curve : A polynomial version of the lost theorem. *Discrete & Computational Geometry*, 53(1):48–63, 2015.
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1.1.2. Articles d'ouvrages

Ouvrages - Équipe Géométrie

1.1.3. Colloques, congrès, séminaires

Articles publiés dans des actes de colloques - Équipe Géométrie