

CURRICULUM VITÆ

Family name: BUGEAUD
First name: Yann
Date of birth: 10 February 1971
Place of birth: Lorient (France)
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Personal address: 11, avenue des Vosges, 67000 Strasbourg, France.
Professional address: Université de Strasbourg, I.R.M.A., 7 rue Descartes,
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1990 : Student at the 'École Normale Supérieure' in Lyon.
1993 : 'Agrégation de mathématiques'.
1996 : Ph-D Thesis, untitled 'Formes linéaires de logarithmes et applications'.
1997 : Military Service (from 01/11/96 to 31/08/97).
1997 : 'Maître de conférences' at the University of Strasbourg I since 01/09/97.
2000 : Habilitation Thesis, untitled 'Approximation diophantienne effective'.
2001 : Professor at the University of Strasbourg I since 01/09/01.
2006 : First Class Professor since 01/09/06.
2008 : Member of the 'Institut universitaire de France' (2008–2013).
2012 : 'Professeur de classe exceptionnelle' since 01/09/12.
2015 : 'Professeur de classe exceptionnelle, deuxième échelon' since 01/09/15.

ADMINISTRATIVE DUTIES

- Head of the mathematical institute (I.R.M.A., Institut de recherche mathématique avancée) of the university of Strasbourg (since September 2013).
- Member (elected) of the scientific council (‘Conseil scientifique’) of the university of Strasbourg (since November 2012).

SUPERVISION OF THESES

- J. Haristoy, PhD thesis ‘Équations diophantiennes exponentielles’ defended at Strasbourg in December 2003.
- T. Pejkovic, PhD thesis (co-supervisor : A. Dujella at Zagreb) ‘Polynomial root separation and applications’ defended at Zagreb in January 2012.
- A. Marnat, PhD thesis (co-supervisor : N. Chevallier at Mulhouse) ‘Approximation diophantienne de formes linéaires’ started in September 2012.

I was member of the committee of the following PhD-theses and habilitation theses:

- O. Teulié (Bordeaux, November 2001, referee),
- S. Kristensen (Strasbourg, March 2002, referee),
- P.-A. Desrousseaux (Lille, March 2002),
- B. Adamczewski (Marseille, December 2002, referee),
- S. Gannoukh (Strasbourg, December 2003, referee),
- S. Khémira (Paris, June 2005, referee),
- I. Diouf (Strasbourg, June 2007),
- A. Durand (Créteil, June 2007, referee),
- J. Nilsson (Lund, December 2007, referee, opponent),
- P. Bel (Bordeaux, April 2008),
- L. Liao (Amiens, May 2008, referee),
- P. Drungilas (Vilnius, September 2008, referee),
- L. Fishman (Beer-Sheva, September 2008, referee),
- S. Seuret (habilitation, Créteil, November 2008),
- B. Dupuy (Bordeaux, July 2009),
- N. Billerey (Paris, November 2009),
- É. Gaudron (habilitation, Grenoble, December 2009),
- K. van Schenk Brill (Strasbourg, December 2010),
- F. Nguema Ndong (Poitiers, September 2013, referee),
- Sha Min (Bordeaux, September 2013, referee).

EDITORIAL DUTIES

I am a member of the editorial board of the following journals:

- ‘Uniform Distribution Theory’ (since 2008);
- ‘Moscow Journal of Combinatorics and Number Theory’ (since its creation in 2011);
- ‘Journal de théorie des nombres de Bordeaux’ (since 2012).

ORGANISATION OF CONFERENCES

2010 (September) : Conference ‘Approximation diophantienne et transcendance’ at the C.I.R.M. in Luminy (other organizers : M. Laurent and U. Zannier).

2012 (April) : Conference ‘Diophantische Approximationen’ in Oberwolfach (other organizer : Yu. Nesterenko).

2014 (September) : Conference ‘Approximation diophantienne et transcendance’ at the C.I.R.M. in Luminy (other organizers : M. Laurent and U. Zannier).

MISCELLANEOUS

Since almost twenty years, I regularly collaborate to the ‘Mathematical Reviews’ and I have written more than two hundred reviews.

I have been referee for many mathematical journals, including ‘Acta Arithmetica’, ‘Compositio Mathematica’, ‘Mathematische Annalen’, ‘Proceedings of the London Mathematical Society’, ‘Duke Mathematical Journal’, ‘Inventiones Mathematicae’, ‘Journal of the American Mathematical Society’ and ‘Acta Mathematica’.

I have been solicited by organisms from various countries (Canada, Iceland, South Africa, Croatia, United States of America, Czech Republic, Swiss) to evaluate research projects.

I was a member of the scientific committee of the ‘Journées arithmétiques’ held in Grenoble in July 2013.

VISITS ABROAD

- 1995 (June) : Invited for one week at the university of Debrecen (Hungary).
1996 (June) : Invited for two weeks at the university of Vilnius (Lithuania).
1998 (April) : Invited for one week at the university of Debrecen (Hungary).
1999 (April) : Invited for one week at the university of Thessaloniki (Greece).
2000 (February) : Invited for one month at the Tata Institute in Mumbai (India).
2000 (March) : Invited for two weeks at the Maths Science Institute in Chennai (India).
2000 (October) : Invited for one month at the Science University in Tokyo.
2001 (June) : Invited for one month at the Technical University of Graz (Austria).
2001 (September - October) : Invited for one and a half month at the Mathematical Institute in Bucharest.
2002 (September) : Invited for two weeks at the University of Lund (Sweden).
2002 (December) : Invited for one week at the Technical University of Berlin.
2003 (February) : Invited for two weeks at the University of York (England).
2003 (April) : Invited for one week at the University of Budapest.
2003 (June) : Invited for two weeks at the University of York (England).
2003 (December) : Invited for one week at the Technical University of Vienna.
2004 (January) : Invited for three weeks at the University of Morelia (Mexico).
2004 (April) : Invited for one week at the University of Zagreb.
2004 (September) : Long stays at the Technical University of Vienna during the academic year 2004–2005 supported by a ‘Lise Meitner Stipendium’.
2005 (February) : Invited for one week at the University of Oman.
2005 (April) : Invited for one week at the University of Vilnius.
2005 (April) : Invited for one week at the University of Edinburgh.
2005 (June) : Invited for one week at the University of Gunma (Japan).
2005 (November) : Invited for one week at the University of Zagreb.
2005 (December) : Invited for one week at the Harish-Chandra Research Institute of Allahabad (India).
2006 (April) : Invited for three weeks at the Schrödinger Institute in Vienna.
2006 (December) : Invited for one week at the University of Split (Croatia).
2007 (February) : Invited for one week at the Max Planck Institut in Bonn.
2007 (April) : Invited for one week at the University of Aarhus (Denemark).
2007 (November) : Invited for one week at the University of Vilnius.
2008 (May) : Invited for one week at the University of Vilnius.
2008 (June) : Invited by the French Cultural Center at Oslo for one week to visit the mathematical institutes at Bergen, Oslo and Trondheim.
2008 (September) : Invited for one week at the University of Vilnius.
2008 (October) : Invited for one week at the University of Maynooth (Ireland).
2009 (January) : Invited for one week at the I.M.P.A. of Rio de Janeiro.

2009 (February) : Invited for one week at the University of Beer Sheva (Israel).
 2009 (April) : Invited for one week at the University of York (England).
 2009 (June) : Invited for one week at the University of Maynooth (Ireland).
 2009 (September) : Invited for one week at the University of Moscow.
 2009 (December) : Invited for one week at the Mathematical Institute at Hanoi.
 2010 (December) : Invited for one week at the Mathematical Institute at Santiago du Chili.
 2011 (January) : Invited for one week at the Technische Universität of Graz (Austria).
 2011 (October - November) : Invited for one week at the at the Schrödinger Institute in Vienna.
 2011 (December) : Invited for one week at the Mathematical Institute at Istanbul.
 2012 (March) : Invited for one week at the Mathematical Institute at Sydney.
 2012 (October) : Invited for one week at the Center de Giorgi in Pisa.
 2013 (May) : Invited for one week at the university of Zagreb.
 2014 (February) : Invited for one week at the Huazhong University of Wuhan (China).
 2014 (June) : Invited for one week at the National University of Singapore.

INVITED TALKS AT INTERNATIONAL CONFERENCES

1998 (May) : Conference ‘Approximation Diophantienne’ in Luminy.
 1998 (May) : ‘Rencontres Arithmétiques’ in Caen.
 1999 (April) : Spring school ‘Bruit de fréquence des oscillateurs et dynamique des nombres algébriques’ in Chapelle des Bois (France).
 1999 (July) : Conference ‘Diophantine approximation and analytic number theory’ in Pisa (Italy).
 2000 (April) : Conference ‘Diophantische Approximationen’ in Oberwolfach.
 2000 (May) : ‘Millennial Conference on Number Theory’ in Urbana–Champaign.
 2000 (July) : Conference on Number Theory in Debrecen (Hungary).
 2000 (September) : Conference ‘Théorie analytique des nombres’ in Luminy.
 2000 (October) : Conference on Analytic Number Theory in Kyoto.
 2001 (February) : Conference ‘Odyssée dynamique’ in Luminy.
 2001 (October) : Workshop ‘Effective methods for Diophantine equations’ in Debrecen (Hungary).
 2002 (January) : Conference on Analytic Number Theory in Luminy.
 2002 (May) : Conference ‘Approximation Diophantienne’ in Luminy.
 2002 (May) : Invited speaker at the VII-th meeting of the Canadian Number Theorists Association in Montreal.
 2003 (June) : Workshop ‘Groupe d’étude sur la numération’ in Luminy.
 2003 (July) : Conference ‘Diophantine approximation’ in Leiden (the Netherlands).
 2003 (October) : Conference ‘Diophantine approximation’ in Vienna.
 2004 (June) : Conference ‘Systèmes dynamiques et approximations diophantiennes’ at the I.H.P. (Paris).

2004 (June) : Invited speaker at the VIII-th meeting of the Canadian Number Theorists Association in Toronto.

2004 (September) : Conference ‘Number Theory’ in Strobl (Austria).

2004 (November) : Conference ‘Diophantine Approximation and Analytic Number Theory’ in Banff (Canada).

2005 (June) : Conference ‘Probability and Number Theory’ in Kanazawa (Japan).

2005 (October) : Conference ‘Metric Number Theory and its Applications’ in York (U. K.).

2005 (October) : Conference ‘Arithmétique, combinatoire et théorie ergodique’ in Tours (France).

2005 (December) : ‘International conference on Diophantine equations’ in Mumbai (India).

2006 (June) : XIV-th Conference ‘Rencontres Arithmétiques’ in Caen.

2006 (July) : Invited speaker at the IX-th meeting of the Canadian Number Theorists Association in Vancouver.

2006 (September) : Conference ‘Approximation diophantienne et nombres transcendants’ in Luminy.

2007 (February) : Workshop ‘Classical and modular approaches to exponential Diophantine equations’ at the Max Planck Institute in Bonn.

2007 (April) : Conference ‘Diophantische Approximationen’ at Oberwolfach.

2007 (June) : One day conference in honor of B. de Mathan at Bordeaux.

2007 (July) : Conference ‘Dynamical Systems and Number Theory’ at Strobl (Austria).

2007 (September) : Plenary speaker at the conference ‘WORDS 2007’ in Luminy.

2007 (October) : Conference ‘Développements récents en approximation diophantienne’ in Luminy.

2007 (October) : Conference ‘Explicit Methods in Number Theory’ in Bordeaux.

2007 (December) : Mini-symposium in Dynamical Systems and Number Theory in Lund (Sweden).

2008 (January) : ‘International Conference on Uniform Distribution’ in Luminy.

2008 (March) : Conference “Diophantine Analysis and Related Fields” in Kyoto.

2008 (March) : Special Session Speaker at the 60th British Mathematical Colloquium in York.

2008 (July) : Invited speaker at the X-th meeting of the Canadian Number Theorists Association in Waterloo.

2008 (August) : Farewell conference in honour of Rob Tijdeman in Leiden.

2008 (September) : Conference on the 75th birthday of W. M. Schmidt in Vienna.

2009 (July) : Plenary speaker at the 26th Journées Arithmétiques at Saint-Étienne.

2009 (October) : International Conference on Analytic Number Theory in Mumbai (India).

2009 (October) : Franco - Thai Seminar in Pure and Applied Mathematics in Bangkok (Thailand).

2010 (May) : Conference ‘Diophantine Approximation and Analytic Number Theory: A Tribute to Cam Stewart’ in Banff (Canada).

2010 (July) : Invited speaker at the XI-th meeting of the Canadian Number Theorists Association in Wolfville.

2010 (October) : Conference ‘Number theory and its applications’ in Debrecen (Hungary).

2011 (June) : Conference “Fractals and Related Fields II” at Porquerolles.

2012 (January) : Conference “Arithmétique et applications” at the CIRM in Luminy.

2012 (March) : “International Number Theory Conference in Memory of Alf van der Poorten” in Newcastle (Australia).

2012 (June) : Invited speaker at the XI-th meeting of the Canadian Number Theorists Association in Lethbridge.

2012 (August) : Conference “Elementare und Analytische Zahlentheorie” in Schney (Germany).

2012 (December) : Conference “Advances in fractals and related topics” at Hong-Kong.

2013 (April) : Conference “Advances in number theory and dynamical systems” at Bristol.

2013 (June) : Conference “Arctic Number Theory Workshop” at Saariselkä (Finland).

2013 (July) : Conference “Erdős Centennial” at Budapest.

2013 (October) : Conference “Thue 150” at Bordeaux.

2013 (October) : Conference in honour of W. M. Schmidt at Vienna.

2013 (November) : Conference “Heights in Diophantine Geometry, Group Theory and Additive Combinatorics” in Vienna.

2013 (December) : Conference “Approximation and numeration” in Paris.

2014 (March) : Conference “Autour des conjectures de Lang et Vojta” au CIRM à Luminy.

2014 (April) : Conference “Dynamics and Analytic Number Theory” in Durham (UK).

2014 (July) : Conference “Diophantine Geometry, Unlikely Intersections and Algebraic Dynamics” in Cetraro (Italy).

2014 (October) : Conference “Vojta’s Conjectures” in Banff (Canada).

2014 (October) : “Colloquium Catalan”, in Liège (Belgium).

2014 (November) : Workshop in honour of the 60th birthday of Ivica Gusic, in Zagreb.

2015 (January) : Conference “Analytic number theory”, in Mumbai (India).

SERIES OF LECTURES

2006 (May) : Series of lectures at the spring school “Combinatorics, Automata and Number Theory” in Liège.

2006 (June) : Series of lectures at the conference “Jeunes Chercheurs en Théorie des Nombres” in Rennes.

2007 (May) : Series of lectures at the spring school “Solvability of Diophantine Equations ” in Leiden.

2009 (May) : Series of lectures “Approximation by algebraic numbers” at the I.M.P.A. of Rio de Janeiro.

2010 (November) : Series of lectures “Fondements de l’arithmétique” in Bamako (Mali), for a C.I.M.P.A. School.

2011 (June) : Series of lectures at the Spring School “Numération 2011” in Liège.

2012 (June) : Series of lectures “Linear forms in logarithms and applications” at the Sommer School “Contemporary Methods for Solving Diophantine Equations” in Banff (Canada).

2012 (August) : Series of lectures “Expansions of Algebraic Numbers” at the Summer School “Four faces of Number Theory” in Würzburg.

2013 (February) : Series of lectures at the school “Number Theory and Dynamical Systems” in Kozhikode (India).

2014 (June) : Series of lectures “Méthodes effectives en théorie des nombres” in Mbour (Senegal), for a C.I.M.P.A. School.

PUBLICATIONS

Books.

- [B1] Approximation by algebraic numbers. Cambridge Tracts in Mathematics 160. Cambridge University Press, 2004. Paperback edition in 2007.
- [B2] Distribution modulo one and Diophantine approximation. Cambridge Tracts in Mathematics 193. Cambridge University Press, 2012. xvi+300 pp.
- [B3] (with Yu. Bilu and M. Mignotte) The Problem of Catalan. Springer, 2014.

Edition of proceedings of conferences.

- [A] (with F. Dal'bo and C. Drutu) *Dynamical systems and Diophantine approximation*. Proceedings of the conference held at the I.H.P. in June 2004. Société mathématique de France, Séminaires et Congrès 19 (2009), xxi+187 pages.

Articles.

- [1] *Dynamique de certaines applications contractantes, linéaires par morceaux, sur $[0, 1[$* , C. R. Acad. Sci. Série I, t. 317 (1993), 575–578.
- [2] (with M. Mignotte and F. Normandin) *Nombres algébriques de petite mesure et formes linéaires en un logarithme*, C. R. Acad. Sci. Série I, t. 321 (1995), 517–522.
- [3] *Sur la distance entre deux puissances pures*, C. R. Acad. Sci. Série I, t. 322 (1996), 1119–1121.
- [4] *On a property of Pisot numbers and related questions*, Acta Math. Hung. 73 (1996), 33–39.
- [5] (with M. Laurent) *Minoration effective de la distance p -adique entre puissances de nombres algébriques*, J. Number Theory 61 (1996), 311–342.
- [6] (with K. Györy) *Bounds for the solutions of unit equations*, Acta Arith. 74 (1996), 67–80.
- [7] (with K. Györy) *Bounds for the solutions of Thue-Mahler equations and norm form equations*, Acta Arith. 74 (1996), 273–292.
- [8] *Bounds for the solutions of superelliptic equations*, Compositio Math. 107 (1997), 187–219.
- [9] *On the diophantine equation $x^2 - 2^m = \pm y^n$* , Proc. Amer. Math. Soc. 125 (1997), 3203–3208.
- [10] *On the diophantine equation $x^2 - p^m = \pm y^n$* , Acta Arith. 80 (1997), 213–223.
- [11] (with M. Weber) *Examples and counterexamples for Riemann sums*, Indag. Math. 9 (1998), 1–13.
- [12] *On the size of integer solutions of elliptic equations*, Bull. Austral. Math. Soc. 57 (1998), 199–206.
- [13] *Sur le plus grand facteur premier de $ax^n + by^m$* , C. R. Acad. Sci. Série I, t. 326 (1998), 661–665.
- [14] *Bornes effectives pour les solutions des équations en S -unités et des équations de Thue-Mahler*, J. Number Theory 71 (1998), 227–244.
- [15] *On the greatest prime factor of $(ab + 1)(bc + 1)(ca + 1)$* , Acta Arith. 86 (1998), 45–49.
- [16] *Algebraic numbers close to 1 in non-archimedean metrics*, Ramanujan J. 2 (1998), 449–457.

- [17] (with J.-P. Conze) *Calcul de la dynamique de transformations linéaires contractantes mod 1 et arbre de Farey*, Acta Arith. 88 (1999), 201–218.
- [18] (with M. Mignotte) *Sur l'équation diophantienne $\frac{x^n-1}{x-1} = y^q$, II*, C. R. Acad. Sci. Série I, t. 328 (1999), 741–744.
- [19] *Linear forms in p -adic logarithms and the Diophantine equation $\frac{x^n-1}{x-1} = y^q$* , Math. Proc. Cambridge Phil. Soc. 127 (1999), 373–381.
- [20] (with M. Mignotte, Y. Roy and T. N. Shorey) *The Diophantine equation $\frac{x^n-1}{x-1} = y^q$ has no solution with x square*, Math. Proc. Cambridge Phil. Soc. 127 (1999), 353–372.
- [21] (with M. Mignotte) *On integers with identical digits*, Mathematika 46 (1999), 411–417.
- [22] (with M. Mignotte and Y. Roy) *On the Diophantine equation $\frac{x^n-1}{x-1} = y^q$* , Pacific J. Math. 193 (2000), 257–268.
- [23] (with L. Hajdu) *Lower bounds for the difference $ax^n - by^m$* , Acta Math. Hung. 87 (2000), 279–286.
- [24] *On the size of integer solutions of elliptic equations, II*, Bull. Greek Math. Soc. 43 (2000), 125–130.
- [25] (with Yu. Bilu) *Démonstration du théorème de Baker-Feldman via les formes linéaires en deux logarithmes*, J. Th. Nombres Bordeaux 12 (2000), 13–23.
- [26] *On the greatest prime factor of $ax^m + by^n$, II*, Bull. London Math. Soc. 32 (2000), 673–678.
- [27] (with O. Teulié) *Approximation d'un nombre réel par des nombres algébriques de degré donné*, Acta Arith. 93 (2000), 77–86.
- [28] *Approximation par des nombres algébriques*, J. Number Theory 84 (2000), 15–33.
- [29] (with G. Hanrot) *Un nouveau critère pour l'équation de Catalan*, Mathematika 47 (2000), 63–73.
- [30] *On some exponential Diophantine equations*, Monatsh. Math. 132 (2001), 93–97.
- [31] (with Zhenfu Cao and M. Mignotte) *On simple K_4 -groups*, J. Algebra 241 (2001), 658–668.
- [32] (with T. N. Shorey) *On the number of solutions of the generalized Ramanujan–Nagell equation*, J. reine angew. Math. 539 (2001), 55–74.
- [33] (with G. Hanrot and M. Mignotte) *Sur l'équation diophantienne $\frac{x^n-1}{x-1} = y^q$, III*, Proc. London Math. Soc. 84 (2002), 59–78.
- [34] *Sur la suite des nombres de la forme $q^{n_1} + \dots + q^{n_k}$* , Archiv Math. 79 (2002), 34–38.
- [35] (with T. N. Shorey) *On the Diophantine equation $\frac{x^n-1}{x-1} = \frac{y^n-1}{y-1}$* , Pacific J. Math. 207 (2002), 61–75.
- [36] *Linear forms in two m -adic logarithms and applications to Diophantine problems*, Compositio Math. 132 (2002), 137–158.
- [37] *Approximation par des nombres algébriques de degré borné et dimension de Hausdorff*, J. Number Theory 96 (2002), 174–200.
- [38] *Approximation by algebraic integers and Hausdorff dimension*, J. London Math. Soc. 65 (2002), 547–559.
- [39] *Nombres de Liouville et nombres normaux*, C. R. Acad. Sci. Paris, Ser. I 335 (2002), 117–120.
- [40] (with P. Corvaja and U. Zannier) *An upper bound for the G.C.D. of $a^n - 1$ and $b^n - 1$* , Math. Z. 243 (2003), 79–84.
- [41] *A note on inhomogeneous Diophantine approximation*, Glasgow Math. J. 45 (2003), 105–110.
- [42] *Sets of exact approximation order by rational numbers*, Math. Ann. 327 (2003), 171–190.

- [43] (with A. Dujella) *On a problem of Diophantus for higher powers*, Math. Proc. Cambridge Phil. Soc. 135 (2003), 1–10.
- [44] *Mahler’s classification of numbers compared with Koksma’s*, Acta Arith. 110 (2003), 89–105.
- [45] (with K. Alniaçik and Y. Avci) *On U_m numbers with small transcendence measure*, Acta Math. Hungar. 99 (2003), 271–277.
- [46] *Approximation simultanée par des nombres algébriques*, J. Th. Nombres Bordeaux 15 (2003), 665–672.
- [47] *An inhomogeneous Jarník theorem*, J. Anal. Math. 92 (2004), 327–349.
- [48] *On the Diophantine equation $(x^k - 1)(y^k - 1) = (z^k - 1)$* , Indag. Math. 15 (2004), 21–28.
- [49] (with M. Mignotte) *On the distance between roots of an integer polynomial*, Proc. Edinburgh Math. Soc. 47 (2004), 553–556.
- [50] *Intersective sets and Diophantine approximation*, Mich. Math. J. 52 (2004), 667–682.
- [51] (with F. Luca) *A quantitative lower bound for the greatest prime factor of $(ab+1)(bc+1)(ca+1)$* , Acta Arith. 114 (2004), 275–294.
- [52] *Linear mod one transformations and the distribution of fractional parts $\{\xi(p/q)^n\}$* , Acta Arith. 114 (2004), 301–311.
- [53] (with B. Adamczewski and F. Luca) *Sur la complexité des nombres algébriques*, C. R. Acad. Sci. Paris Série I, t. 339 (2004), 11–14.
- [54] (with M. Mignotte and S. Siksek) *Sur les nombres de Fibonacci de la forme $q^k y^p$* , C. R. Acad. Sci. Paris Série I, t. 339 (2004), 327–330.
- [55] (with K. Györy) *On binomial Thue–Mahler equations*, Periodica Math. Hungar. 49 (2004), 25–34.
- [56] *Mahler’s classification of numbers compared with Koksma’s, III*, Publ. Math. Debrecen 65 (2004), 305–316.
- [57] (with K. Gyarmati) *On generalizations of a problem of Diophantus*, Illinois J. Math. 48 (2004), 1105–1115.
- [58] (with M. Amou) *Sur la séparation des racines des polynômes et une question de Sprindžuk*, Ramanujan J. 9 (2005), 25–32.
- [59] (with F. Luca, M. Mignotte and S. Siksek) *On Fibonacci numbers with few prime divisors*, Proc. Japan Acad. 81 (2005), 17–20.
- [60] (with F. Luca) *On the period of the continued fraction expansion of $\sqrt{2^{2n+1} + 1}$* , Indag. Math. 16 (2005), 21–35.
- [61] (with A. Dubickas) *Fractional parts of powers and Sturmian words*, C. R. Acad. Sci. Paris Série I, t. 341 (2005), 69–74.
- [62] (with M. Laurent) *Exponents of Diophantine approximation and Sturmian continued fractions*, Ann. Inst. Fourier (Grenoble) 55 (2005), 773–804.
- [63] (with M. Laurent) *Exponents of inhomogeneous Diophantine approximation*, Moscow Math. J. 5 (2005), 747–766.
- [64] (with M. M. Dodson and S. Kristensen) *Zero–infinity laws in Diophantine approximation*, Q. J. Math. 56 (2005), 311–320.
- [65] (with F. Luca, M. Mignotte and S. Siksek) *On perfect powers in Lucas sequences*, Int. J. Number Theory 1 (2005), 309–332.

- [66] (with B. Adamczewski) *On the complexity of algebraic numbers II. Continued fractions*, Acta Math. 195 (2005), 1–20.
- [67] (with M. Mignotte and S. Siksek) *Classical and modular approaches to exponential Diophantine equations I. Fibonacci and Lucas perfect powers*, Annals of Math. 163 (2006), 969–1018.
- [68] (with M. Mignotte and S. Siksek) *Classical and Modular Approaches to Exponential Diophantine Equations II. The Lebesgue–Nagell Equation*. Compositio Math. 142 (2006), 31–62.
- [69] (with B. Adamczewski) *On the Littlewood conjecture in simultaneous Diophantine approximation*, J. London Math. Soc. 73 (2006), 355–366.
- [70] (with N. Chevallier) *On simultaneous inhomogeneous Diophantine approximation*, Acta Arith. 123 (2006), 97–123.
- [71] (with F. Luca) *On Pillai’s Diophantine equation*, New York J. Math. 12 (2006), 193–217.
- [72] (with B. Adamczewski) *Real and p -adic expansions involving symmetric patterns*, Int. Math. Res. Not., Art. ID 75968 (2006), 17 pp.
- [73] (with B. Adamczewski) *Transcendence criteria for pairs of continued fractions*, Glas. Mat. 41 (2006), 223–231.
- [74] (with B. Adamczewski and L. Davison) *Continued fractions and transcendental numbers*, Ann. Inst. Fourier (Grenoble) 56 (2006), 2093–2113.
- [75] (with B. Adamczewski) *On the independence of expansions of algebraic numbers in an integer base*, Bull. London Math. Soc. 39 (2007), 283–289.
- [76] (with B. Adamczewski) *On the Maillet–Baker continued fractions*, J. reine angew. Math. 606 (2007), 105–121.
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