

LIST OF PUBLICATIONS OF

– *PIETER MOREE* –

In preparation

- [a] H.W. Lenstra, jr., P. Moree and P. Stevenhagen, Character sums for primitive root densities, in preparation.
- [b] P. Moree, Asymptotically exact heuristics for divisors of linear recurrences of second order, in preparation.
- [c] K. Ford, S. Kim and P. Moree, Values of the Euler totient function not divisible by a prescribed odd prime, in preparation.
- [d] T. Garefalakis, P. Moree and D. Panario, in preparation.
- [e] P. Moree, Artin's primitive root conjecture -a survey, in preparation.
- [f] C. Cobeli, Y. Gallot and P. Moree, Distribution of modular inverses and large cyclotomic coefficients, in preparation.
- [g] A. Decker and P. Moree, Coefficients of divisors of $x^n - 1$, in preparation.
- [h] P. Moree, Moser's mathematical work on the equation $1^k + 2^k + \dots + (m-1)^k = m^k$, in preparation.
- [i] P. Moree, Cryptonomical numbers.

Submitted

- [1] D. Brink, P. Moree and R. Osburn, On some computations of Shanks and Schmid, submitted to *Abh. Math. Sem. Univ. Hamburg*.
- [2] L. Dicuangco-Valdez, P. Moree and P. Solé, On the existence of Hermitian self-dual extended abelian group codes, submitted to *Designs, Codes and Cryptography*.
- [3] G. Bachman and P. Moree, On a class of ternary inclusion-exclusion polynomials, submitted to *Integers*.
- [4] Y. Gallot, P. Moree, R. Wilms, The family of ternary cyclotomic polynomials with one free prime, submitted to *Involve*.

To appear

- [1] Y. Gallot, P. Moree and H. Hommerson, Value distribution of coefficients of cyclotomic polynomials, *Unif. Distrib. Theory*, to appear.
- [2] Y. Gallot, P. Moree and W. Zudilin, The Erdős-Moser equation $1^k + 2^k + \dots + (m-1)^k = m^k$ revisited using continued fractions, to appear in *Mathematics of Computation*.
- [3] P. Moree, A top hat for Moser's four mathemagical rabbits, to appear in the *American Mathematical Monthly*.
- [4] F. Luca, P. Moree and B. de Weger, Some Diophantine equations from finite group theory: $\Phi_m(x) = 2p^n - 1$, *Publ. Math. Debrecen*, to appear.

Published papers

- [63] Y. Gallot and P. Moree, Neighboring ternary cyclotomic coefficients differ by at most one, *J. Ramanujan Math. Soc.* **24** (2009), 235–248..
- [62] Y. Gallot and P. Moree, Ternary cyclotomic polynomials having a large coefficient, *J. Reine Angew. Math.* **632** (2009), 105–125.
- [61] W.D. Banks, D.N. Hart, P. Moree and C.W. Nevans, The Nicolas and Robin inequalities with sums of two squares, *Monatsh. Math.* **157** (2009), 303–322
- [60] P. Moree and B. Sury, Primes in a prescribed arithmetic progression dividing the sequence $\{a^k + b^k\}_{k=1}^{\infty}$, *Int. J. Number Theory* **5** (2009), 641–665.
- [59] C.-G. Ji, W.-P. Li and P. Moree, Values of coefficients of cyclotomic polynomials II, *Discrete Math.* **309** (2009), 1720–1723.
- [58] P. Moree, Inverse cyclotomic polynomials, *J Number Theory* **129** (2009), 667–680.
- [57] P. Moree, On primes in arithmetic progression having a prescribed primitive root. II, *Funct. Approx. Comment. Math.* **39** (2008), 133–144.
- [56] D.B. Grünberg and P. Moree, Sequences of enumerative geometry: congruences and asymptotics, with an appendix by Don Zagier, *Experiment. Math.* **17** (2008), 409–426.

- [55] A. Decker and P. Moree, Counting RSA-integers, *Result. Math.* **52** (2008), 35–39.
- [54] P. Moree, Artin prime producing quadratics, *Abh. Math. Sem. Univ. Hamburg* **77** (2007), 109–127.
- [53] Y.-J. Choie, N. Lichiardopol, P. Moree, P. Solé, On Robin’s criterion for the Riemann Hypothesis, *J. Théor. Nombres Bordeaux* **19** (2007), 351–366.
- [52] L. Dicuangco, P. Moree and P. Solé, The lengths of Hermitian self-dual extended duadic codes, *Journal of Pure and Applied Algebra*, **209** (2007), 223–237.
- [51] P. Moree and R. Osburn, Two-dimensional lattices with few distances, *Enseignement Math.* **52** (2006), 361–380.
- [50] P. Moree, On the distribution of the order over residue classes, *Electron. Res. Announc. Amer. Math. Soc.* **12** (2006), 121–128.
- [49] P. Moree, On the distribution of the order and index of $g(\bmod p)$ over residue classes III, *J. Number Theory* **120** (2006), 132–160.
- [48] P. Moree, Improvement of an estimate of H. Müller involving the order of $2(\bmod u)$ II, *Arch. Math.* **87** (2006), 129–140.
- [47] P. Moree, Asymptotically exact heuristics for prime divisors of the sequence $\{a^k + b^k\}_{k=1}^{\infty}$, *J. Integer Seq.* **9** (2006), Article 06.2.8, pp. 15 (electronic).
- [46] P. Moree, On the distribution of the order and index of $g(\bmod p)$ over residue classes II, *J. Number Theory* **117** (2006), 330–354.
- [45] J. Holden and P. Moree, Some heuristics and results for small cycles of the discrete logarithm, *Math. Comp.* **75** (2006), 419–449.
- [44] D. Gijswijt and P. Moree, A combinatorial identity arising from cobordism theory, *Acta Math. Univ. Comenianae (N. S.)* **74**, no. 2, (2005), 199–203.
- [43] P. Moree, On the distribution of the order and index of $g(\bmod p)$ over residue classes I, *J. Number Theory* **114** (2005), 238–271.
- [42] P. Moree and P. Solé, Around Pelikán’s conjecture on very odd sequences, *Manuscripta Math.* **117** (2005), 219–238.
- [41] P. Moree, On primes p for which d divides $\text{ord}_p(g)$, *Funct. Approx. Comment. Math.* **33** (2005), 85–95.

- [40] P. Moree, On the formal series Witt transform, *Discrete Math.* **295** (2005), 143–160.
- [39] P. Moree, On some claims in Ramanujan’s ‘unpublished’ manuscript on the partition and tau functions, *Ramanujan J.* **8** (2004), 317–330.
- [38] J. Holden and P. Moree, New conjectures and results for small cycles of the discrete logarithm, *High Primes and Misdemeanours: lectures in honour of the 60th birthday of Hugh Cowie Williams*, AMS, 2004, 245–254.
- [37] P. Moree, On the average number of elements in a finite field with order or index in a prescribed residue class, *Finite Fields Appl.* **10** (2004), 438–463.
- [36] P. Moree, Convoluted convolved Fibonacci numbers, *J. Integer Seq.* **7** (2004), Article 04.2.2, pp. 14 (electronic).
- [35] P. Moree and H.J.J. te Riele, The hexagonal versus the square lattice, *Math. Comp.* **73** (2004), 451–473.
- [34] P. Moree, Chebyshev’s bias for composite numbers with restricted prime divisors, *Math. Comp.* **73** (2004), 425–449.
- [33] P. Moree, Asymptotically exact heuristics for (near) primitive roots. II, *Japan. J. Math.* **29** (2003), 143–157.
- [32] J.-H. Evertse, P. Moree, C.L. Stewart and R. Tijdeman, Multivariate Diophantine equations with many solutions, *Acta Arith.* **107** (2003), 103–125.
- [31] A. Besser and P. Moree, On an invariant related to a linear inequality, *Arch. Math.* **79** (2002), 463–471.
- [30] P. Moree and P. Stevenhagen, Prime divisors of the Lagarias sequence, *J. Théor. Nombres Bordeaux* **13** (2001), 241–251.
- [29] P. Moree and P. Stevenhagen, A two-variable Artin conjecture, *J. Number Theory* **85** (2000), 291–304. (Reviewed in MR 2001k: 11188 and Zbl 0966.11042.)
- [28] P. Moree, Asymptotically exact heuristics for (near) primitive roots, *J. Number Theory* **83** (2000), 155–181. (Reviewed in MR 2001m: 11161.)
- [27] P. Moree, Approximation of singular series and automata, *Manuscripta Math.* **101** (2000), 385–399. (Reviewed in MR 2001f: 11204.)
- [26] P. Moree and J. Cazarán, On a claim of Ramanujan in his first letter to Hardy, *Expos. Math.* **17** (1999), 289–312. (Reviewed in MR 2001c: 11103.)

- [25] P. Moree, On primes in arithmetic progression having a prescribed primitive root, *J. Number Theory* **78** (1999), 85–98. (Reviewed in MR 2001i: 11118 and Zbl 0931.11036.)
- [24] P. Moree, Uniform distribution of primes having a prescribed primitive root, *Acta Arithmetica* **89** (1999), 9–21. (Reviewed in MR 2000d: 57031 and Zbl 0926.11003.)
- [23] P. Moree, Improvement of an estimate of H. Müller involving the order of $2 \pmod{u}$, *Arch. Math.* **71** (1998), 197–200. (Reviewed in MR 99m: 11111.)
- [22] P. Moree, Counting divisors of Lucas numbers, *Pacific J. Math.* **186** (1998), 267–284. (Reviewed in MR 99m: 11013 and Zbl 0936.11013.)
- [21] A. Reznikov and P. Moree, Three-manifold subgroup growth, homology of coverings and simplicial volume, *Asian J. Math.* **1** (1997), 764–768. (Reviewed in MR 2000d: 57031 and Zbl 0913.20017)
- [20] P. Moree, A generalization of the Buchstab equation, *Manuscripta Math.* **94** (1997), 267–270. (Reviewed in MR 98m: 11096 and Zbl 0942.11042.)
- [19] P. Moree and P. Stevenhagen, Prime divisors of Lucas sequences, *Acta Arithmetica* **82** (1997), 403–410. (Reviewed in MR 98i: 11098 and Zbl 0913.11048.)
- [18] P. Moree, On a conjecture of Rodier on primitive roots, *Abh. Math. Sem. Univ. Hamburg* **67** (1997), 165–171. (Reviewed in MR 98i: 11081 and Zbl 0888.11035.)
- [17] P. Moree, On the divisors of $a^k + b^k$, *Acta Arithmetica* **80** (1997), 197–212. (Reviewed in MR 98e: 11105 and Zbl 0884:11019.)
- [16] P. Moree, On the prime density of Lucas sequences, *J. Théor. Nombres Bordeaux* **8** (1996), 449–459. (Reviewed in MR 98f: 11127 and Zbl 0873.11058.)
- [15] P. Moree, The incongruence of consecutive values of polynomials, *Finite Fields Appl.* **2** (1996), 321–335. (Reviewed in MR 97d: 11044 and Zbl 0893:11007). (This paper is further elaborated upon by M. Zieve, *J. Number Theory* **73** (1998), 122–138.)
- [14] P. Moree and G. L. Mullen, Dickson polynomial discriminators, *J. Number Theory* **59** (1996), 88–105. (Reviewed in MR 97d: 11183 and Zbl 0858:11057.)
- [13] P. Moree, Diophantine equations of Erdős-Moser type, *Bull. Austral. Math. Soc.* **53** (1996), 281–292. (Reviewed in MR 97b: 11048 and Zbl 0851.11020.)
- [12] P. Moree, A special value of Dickman’s function, *Math. Student* **64** (1995), 47–50.

- [11] P. Moree and H. Roskam, On an arithmetical function related to Euler's totient and the discriminator, *Fibonacci Quart.* **33** (1995), 332–340. (Reviewed in MR 96d:11005.)
- [10] P. Moree, On arithmetical progressions having only few prime factors in comparison with their length, *Acta Arithmetica* **70** (1995), 295–312. (Reviewed in MR 96d:11100 and Zbl 0821.11044.)
- [9] P. Moree, H. J. J. te Riele and J. Urbanowicz, On the divisibility properties of integers x and k satisfying $1^k + 2^k + \cdots + (x-1)^k = x^k$, *Math. Comp.* **63** (1994), 799–815. (Reviewed in MR 94m:11041 and Zbl 0816.11024.)
- [8] P. Moree, On a theorem of Carlitz-Von Staudt, *C. R. Math. Rep. Acad. Sci. Canada* (4) **16** (1994), 166–170. (Reviewed in MR 95i: 11002 and Zbl 0820.11002.)
- [7] P. Moree, A remark on Artin's conjecture, *Simon Stevin* **67** (1993), 255–257. (Reviewed in MR 95e:11106 and Zbl 0809.11057.)
- [6] P. Moree, Psixyology and diophantine equations, Ph.D. thesis, Leiden University, 1993, pp. 196. (Reviewed in MR 96e:11114 and Zbl 0784.11046.)
- [5] P. Moree, On the number of y -smooth natural numbers $\leq x$ representable as a sum of two integer squares, *Manuscripta Math.* **80** (1993), 199–211. (Reviewed in MR 94g:11069 and Zbl 0791.11046.)
- [4] P. Moree, Bertrand's postulate for primes in arithmetical progressions, *Computers Math. Applic.* **26** (1993), 35–43. (Reviewed in MR 94f:11089 and Zbl 0789.11001.)
- [3] P. Moree, An interval result for the number field $\psi(x, y)$ function, *Manuscripta Math.* **76** (1992), 437–450. (Reviewed in MR 93h:11127 and Zbl 0772.11044.)
- [2] P. Moree, On a conjecture of Funar, *Nieuw Arch. Wisk.* (4) **8** (1990), no. 1, 55–60. (Reviewed in MR 91e:11013, see also MR 91e:11012 and Zbl 0717.11010.)
- [1] P. Moree and C. L. Stewart, Some Ramanujan-Nagell equations with many solutions, *Indag. Math.* (N. S.) (4) **1** (1990), 465–472. (Reviewed in MR 92f:11053 and Zbl 0718.11011.)

Appendices

- [1] P. Moree, Appendix to
V. Pless, P. Solé and Z. Qian, Cyclic self dual \mathbf{Z}_4 -codes, *Finite Fields Appl.* **3** (1997), 48–69. (Reviewed in MR 97m:94036.)
- [2] P. Moree, Appendix to
A. Khare, Divisibility tests and recurring decimals in Euclidean domains,

JP J. Algebra Number Theory Appl. **7** (2007), 1–32.

Edited works

- [1] M. Kapranov, S. Kolyada, Y.I. Manin, P. Moree and L.A. Potyagailo (Eds.), Geometry and Dynamics of Groups and Spaces. In Memory of Alexander Reznikov, *Progress in Mathematics* **265** (2007), pp. 772.
- [2] S. Kolyada, Y.I. Manin, M. Möller, P. Moree and T. Ward (Eds.), Dynamical Numbers: Interplay between Dynamical Systems and Number Theory, *Contemporary Mathematics* **532**.

Publications establishing conjectures of mine

- [1] S. Laishram and T.N. Shorey, T. Number of prime divisors in a product of terms of an arithmetic progression, *Indag. Math. (N.S.)* **15** (2004), no. 4, 505–521.
- [2] J. Bourgain, S.V. Konyagin and I.E. Shparlinski, Product sets of rationals, multiplicative translates of subgroups in residue rings and fixed points of the discrete logarithm, *Int. Math. Res. Not. IMRN* 2008, Art. ID rnn 090, 29 pp.
- [3] Sherry Gong, On a problem regarding coefficients of cyclotomic polynomials, *J Number Theory* **129** (2009), 2924-2932.

Popular

- [1] P. Moree, Riemann, nulpunten en priemgetallen (Dutch), De vakidoot, December 1995.
- [2] J.C. Moree, P. Moree, L. Roobol, Wiskundige voorouders (Dutch), *Nieuw Arch. Wiskd. (5)* **2** (2001), no. 2, 146–147.
- [3] P. Moree, Kort Amerikaans ? (Dutch), *Nieuw Arch. Wiskd. (5)* **3** (2002), no. 3, 231–232.
- [4] P. Moree, De nulpunten van Riemann (Dutch), *Nieuw Arch. Wiskd. (5)* **6** (2005), no. 1, 82–87.
- [5] P. Moree, J. Triest and R. Triest, Mysterieuze regelmatige lichamen (Dutch), *Nieuw Arch. Wiskd. (5)* **6** (2005), no. 2, 158–160.
- [6] P. Moree, Die multiplikative Ordnung (German), Contribution to the Max-Planck-Gesellschaft Jahrbuch 2005, vide <http://www.mpg.de/bilderBerichteDokumente/dokumentation/jahrbuch/2005/index.html>
- [7] 25 Jahre Forschung am Max-Planck-Institut für Mathematik 1981-2006, Bonn, 2006. (As editor.)
- [8] ERCOM: Max Planck Institute for Mathematics, Bonn (Germany), *Newsletter of the EMS* June 2006, 41–42. (Author names: P. Moree and J. Müttel not indicated.)
- [9] P. Moree, Sipping tea with Sasha, *Progress in Mathematics* **265**, xxv–xxix.

Manuscripts not intended for publication brought out on the ArXiv

- [1] P. Moree and H. Hommersom, Value distribution of Ramanujan sums and cyclotomic polynomial coefficients, arXiv:math.NT/0307352.
[Based on M.Sc. thesis of H. Hommersom, written at the University of Amsterdam]
- [2] P. Moree, Counting carefree couples, arXiv:math.NT/0510003
[Solves some conjectures made by M. Schroeder in his book ‘Number theory in science and communication’. Uses, however, only methods from elementary analytic number theory.]

Short bookreviews

- [1] Analytic number theory, I, II (Proceedings of a conference held in honor of H. Halberstam), 1996. (Review in dutch.)
- [2] P.D.T.A. Elliott, Duality in analytic number theory, 1997.
- [3] M. Ram Murty and V. Kumar Murty, Non-vanishing of L-functions and applications, 1997.
- [1] Proceedings of the 39th Taniguchi International Mathematics Symposium, May 13–17, 1996, Kyoto, *Nieuw Arch. Wiskd. (4)* **17** (1999), 292–293.
- [2] Topics in number theory. In honor of B. Gordon and S. Chowla, *Nieuw Arch. Wisk. 1* (5th series) (2000), 321–322.
- [3] Fermat’s Last Theorem for amateurs by P. Ribenboim.
- [4] The random walks of George Pólya by G.L. Alexanderson, Mathematical Association of America, *Nieuw Arch. Wiskd. (5)* **2** (2001), 80–81.
- [5] M. Ram Murty, Problems in Analytic Number Theory, *Nieuw Arch. Wisk. 3* (2002), 268.
- [6] M. Krizek, F. Luca and L. Somer, 17 lectures on Fermat numbers. From Number Theory to Geometry , Canadian Mathematical Society Books in Mathematics, 2001, MR1939138 (2003i:11015).
- [7] H.M. Srivastava and Junesang Choi, Series Associated with the Zeta and related Functions , Kluwer Academic Publishers, Dordrecht, 2001. x+388 pp. *Nieuw Arch. Wisk. 4* (2002), 79.
- [8] M.A. Bennett et al. (eds), Surveys in number theory: papers from the millennial conference on number theory, *Nieuw Arch. Wisk. 7* (2006), 131.
- [9] A.C. Cojocaru and M. Ram Murty, An introduction to sieve methods and their applications, London Mathematical Society Lecture Note Series **66**, Cambridge: Cambridge University Press, 2006.

Longer bookreviews

- [1] A. Beutelspacher, Pasta all'infinito, Meine Italienische Reise in die Mathematik, *Nieuw Arch. Wisk.* **5** (2004), 69–71.
- [2] G. Everest, A. van der Poorten, I. Shparlinski and T. Ward, Recurrence sequences, *Bull. London Math. Soc.* **36** (2004), 427–428.
- [3] I. Shparlinski, Cryptographic applications of analytic number theory: complexity lower bounds and pseudorandomness, *SIAM Review* **47** (2005), 182–185.

Problems posed

- [1] R. A. Jansen and P. Moree, Elementary problem proposal, E 3445, *Amer. Math. Monthly* **98** (1991), no. 6, 552. (Solution in *Amer. Math. Monthly* **99** (1992), no. 8, 795.)
- [2] P. Moree, Problem 2007, *Cruz Mathematicorum* **21** (1995), 20.
- [3] P. Moree, Problem 1097, *Elem. Math.* **50** (1995), p. 82. (Solution **51** (1996), pp. 81–82.)
- [4] P. Moree, Problem 927, *Nieuw Arch. Wisk.* (4) **13** (1995), 240. (Solution **14** (1996), 440–441.)
- [5] P. Moree, Problem 937, *Nieuw Arch. Wisk.* (4) **14** (1996), 180. (Solution **15** (1997), 129–130.)
- [6] P. Moree, Problem 948, *Nieuw Arch. Wisk.* (4) **14** (1996), 301. (Solution **15** (1997), 264.)
- [7] P. Moree and W. Zudilin, Asymptotics related to the Erdős–Moser diophantine equation, A problem presented at the 10th Symposium on Orthogonal Polynomials, Special Functions and Applications (Leuven, Belgium, July 20–25, 2009).

Solutions to problems

- [1] P. Moree, Solution to Problem 11 (Volume 30 (1983), 150–151), *Math. Semesterber.* **41** (1994), 210.

MPI-preprints

- 1995 -

- [1] P. Moree, On the divisors of $a^k + b^k$, MPI-preprint 130, Bonn, 1995, pp. 9.

- 1996 -

- [2] P. Moree, Counting divisors of Lucas numbers, MPI-preprint 34, Bonn, 1996, pp. 16.
- [3] P. Moree, On a result of Levin and Fainleib involving multiplicative functions, MPI-preprint 46, Bonn, 1996, pp. 12.
- [4] P. Moree, On the prime density of Lucas sequences, MPI-preprint 67, Bonn, 1996, pp. 10.
- [5] P. Moree, On a conjecture of Rodier on primitive roots, MPI-preprint 117, Bonn, 1996, pp. 7.
- [6] A. Reznikov and P. Moree, Three-manifold subgroup growth, homology of coverings and simplicial volume, MPI-preprint 171, Bonn, 1996, pp. 6.

- 1997 -

- [7] P. Moree, Uniform distribution of primes having a prescribed primitive root, MPI-preprint 5, Bonn, 1997, pp. 8.
- [8] P. Moree and P. Stevenhagen, Prime divisors of Lucas sequences, MPI-preprint 35, Bonn, 1997, pp. 6.

- 1998 -

- [9] P. Moree, Uniform distribution of primes having a prescribed rational primitive root, MPI-preprint 23, Bonn, 1998, pp. 15.
- [10] P. Moree, On some sums connected with primitive roots, MPI-preprint 42, Bonn, 1998, pp. 10.
- [11] P. Moree, Primes in arithmetic progressions having a prescribed primitive root, MPI-preprint 57, Bonn, 1998, pp. 9.
- [12] P. Moree, On some sums connected with primitive roots, II, MPI-preprint 59, Bonn, 1998, pp. 8.

- 2004 -

- [13] P. Moree, On the distribution of the order and index of $g(\bmod p)$ over residue classes II, MPIM2004-28.
- [14] P. Moree and P. Solé, Around Pelikan's conjecture on very odd sequences, MPIM2004-61.
- [15] P. Moree, On primes p for which d divides $\text{ord}_p(g)$, MPIM2004-69.
- [16] P. Moree, On the distribution of the order and index of $g(\bmod p)$ over residue classes III, MPIM2004-103.

- 2005 -

- [17] P. Moree, Improvement of an estimate of H. Müller involving the order of $2(\bmod u)$ II, MPIM2005-75.
- [18] Lilibeth Dicuangco, Pieter Moree and Patrick Solé, The lengths of Hermitian self-dual extended duadic codes, MPIM2005-102.

- 2006 -

- [19] Lilibeth Dicuangco, Pieter Moree and Patrick Solé, On the existence of Hermitian self-dual extended abelian group codes, MPIM2006-32.
- [20] P. Moree and R. Osburn, Two-dimensional lattices with few distances, MPIM2006-46.
- [21] Y.-J. Choie, N. Lichiardopol, P. Moree, P. Solé, On Robin's criterion for the Riemann Hypothesis, MPIM2006-47.
- [22] P. Moree, Artin prime producing quadratics, MPIM2006-56.
- [23] P. Moree, On the distribution of the order over residue classes, MPIM2006-99.
- [24] D.B.Grünberg and P.Moree (Appendix by D.Zagier), Sequences of enumerative geometry: congruences and asymptotics, MPIM2006-135.
- [25] P. Moree, Values of the Euler phi function not divisible by a prescribed odd prime, MPIM2006-150.

- 2007 -

- [26] P. Moree and B. Sury, Prime divisors in a prescribed arithmetic progression dividing the sequence $\{a^k + b^k\}_{k=1}^{\infty}$, MPIM2007-39.
- [27] P. Moree, Reciprocal cyclotomic polynomials, MPIM2007-114.
- [28] W.D. Banks, D.N. Hart, P. Moree and C.W. Nevans, The Nicolas and Robin inequalities with sums of two squares, MPIM2007-125.
- [29] Y. Gallot and P. Moree, Counter-examples to Sister Beiter's cyclotomic coefficient conjecture, MPIM2007-141.

- 2008 -

- [30] Y. Gallot, H. Hommersom and P. Moree, Value distribution of cyclotomic polynomial coefficients, MPIM2008-29.
- [31] P. Moree, On primes in arithmetic progression having a prescribed primitive root. II, MPIM2008-111.
- [32] Y. Gallot and P. Moree, Neighboring ternary cyclotomic coefficients differ by at most one, MPIM2008-123.

- 2009 -

- [33] Y. Gallot, P. Moree and W. Zudilin, The Erdős-Moser equation $1^k + 2^k + \dots + (m-1)^k = m^k$ revisited using continued fractions, MPIM2009-49.
- [34] F. Luca, P. Moree and B. de Weger, Some Diophantine equations from finite group theory: $\Phi_m(x) = 2p^n - 1$, MPIM2009-62.
- [35] P. Moree, Moser's mathematical work on the equation $1^k + 2^k + \dots + (m-1)^k = m^k$, MPIM2009-92.
- [36] P. Moree, On Golomb's near-primitive root conjecture, MPIM2009-106.

- [37] P. Moree, A top hat for Moser's four mathematical rabbits, MPIM2010-10.
- [38] Y. Gallot, P. Moree, R. Wilms, The family of ternary cyclotomic polynomials with one free prime, MPIM2010-11.
- [39] D. Brink, P. Moree and R. Osburn, On computations of Shanks and Schmid, MPIM2010-22.
- [40] G. Bachman and P. Moree, On a class of ternary inclusion-exclusion polynomials, MPIM2010-52

Leiden-preprints

- 1999 -

- [1] P. Moree, On primes in arithmetic progression having a prescribed primitive root, Report MI 05-99, March, pp. 12.
- [2] P. Moree, Approximation of Artin type constants and automata, Report MI 08-99, April, pp. 14.
- [3] P. Moree, Asymptotically exact heuristics for (near) primitive roots, Report MI 25-99, September, pp. 22.
- [4] P. Moree and P. Stevenhagen, A two variable Artin conjecture, Report MI 30-99, October, pp. 11.

- 2000 -

- [5] P. Moree and P. Stevenhagen, Prime divisors of the Lagarias sequence, Report MI 2000-04, February, pp. 10.

Korteweg-de Vries-Preprints

- 2004 -

- [04-01] J. Holden and P. Moree, Some heuristics and results for small cycles of the discrete logarithm, arXiv:math.NT/0401013.

- 2003 -

- [03-18] P. Moree, Asymptotically exact heuristics for prime divisors of $a^k + b^k$, arXiv:math.NT/0311483.
- [03-17] P. Moree, Convoluted convolved Fibonacci numbers, arXiv:math.CO/0311205, *J. Integer Seq.* **7** (2004), Article 04.2.2, pp. 14 (electronic).
- [03-16] P. Moree, The formal series Witt transform, arXiv:math.CO/0311194, *Discrete Math.* **295** (2005), 143–160.
- [03-11] D. Gijswijt and P. Moree, On a set-theoretic invariant, arXiv:math.CO/0309318.
- [03-09] P. Moree and H. Hommerson, Value distribution of Ramanujan sums and cyclotomic polynomial coefficients, ArXiv:math.NT/0307352. (MSc. thesis, not submitted for publication.)
- [03-07] J. Holden and P. Moree, New conjectures and results for small cycles of the discrete logarithm, arXiv:math.NT/0305305, *High Primes and Misdemeanours: lectures in honour of the 60th birthday of Hugh Cowie Williams*, AMS, 2004, 245–254.

- 2002 -

- [02-36] P. Moree, On the average number of elements in a finite field with order or index in a prescribed residue class, arXiv:math.NT/0212220, *Finite Fields Appl.* **10** (2004), 438–463..
- [02-29] P. Moree, On the distribution of the order and index of $g(\bmod p)$ over residue classes, arXiv:math.NT/0211259, *J. Number Theory* to appear.
- [02-09] P. Moree and H.J.J. te Riele, The hexagonal versus the square lattice, arXiv:math.NT/0204332, *Math. Comp.* **73** (2004), 451–473.
- [02-01] P. Moree, On some claims in Ramanujan’s ‘unpublished’ manuscript on the partition and tau functions, arXiv:math.NT/0201265, *Ramanujan J.* **8** (2004), 317–330.

- 2001 -

- [01-22] P. Moree, Chebyshev's bias for composite numbers with restricted prime divisors, arXiv:math.NT/0112100, *Math. Comp.* **73** (2004), 425–449.
- [01-15] J.-H. Evertse, P. Moree, C.L. Stewart and R. Tijdeman, Multivariate Diophantine equations with many solutions, arXiv:math.NT/0107219, *Acta Arith.* **107** (2003), 103–125.
- [01-08] A. Besser and P. Moree, On an invariant related to a linear inequality, arXiv:math.LA/0104149, *Arch. Math.* **79** (2002), 463–471.
- [01-01] P. Moree, Asymptotically exact heuristics for (near) primitive roots. II, arXiv:math.NT/0104148, *Japan. J. Math.* **29** (2003), 143–157.

- 1999 -

- [99-04] P. Moree, On primes in arithmetic progression having a prescribed primitive root, *J. Number Theory* **78** (1999), 85–98, CMP 1 706 921; Zbl. 931.11036