

JÁNOS PINTZ

LIST OF PUBLICATIONS

1. J. Pintz, On a point in the theory of Dirichlet's L-functions (Hung.), *Matematikai Lapok* 22 (1971), 143-148.
2. J. Pintz, On a point in the theory of Dirichlet's L-functions, II. (Hung.), *Matematikai Lapok* 22 (1971), 331-335.
3. J. Pintz, On Siegel's theorem, *Acta Arithmetica* 24 (1974), 543-551.
4. J. Pintz: Investigations in the theory of Dirichlet's L-functions (in hungarian), Thesis, 1975, Budapest, 1-154.
5. J. Pintz, On the Brauer-Siegel Theorem, *Topics in Number Theory*, Coll. Math. Soc. János Bolyai, North-Holland Publ. Co., Amsterdam-Oxford-New York, 1976, 259-265.
6. J. Pintz, Bemerkungen zu der voranstehenden Arbeit von S. Knapowski und P. Turán, *Monatshefte für Mathematik* 82 (1976), 199-206.
7. J. Pintz, Elementary methods in the theory of L-functions I, Hecke's theorem, *Acta Arith.* 31 (1976), 53-60.
8. J. Pintz, Elementary methods in the theory of L-functions II, On the greatest real zero of a real L-function, *Acta Arith.*, 31 (1976), 273-289.
9. J. Pintz, Elementary methods in the theory of L-functions III, The Deuring phenomenon, *Acta Arith.* 31 (1976), 295-306.
10. J. Pintz, Elementary methods in the theory of L-functions IV, The Heilbronn phenomenon, *Acta Arith.* 31 (1976), 419-429.
11. J. Pintz, Elementary methods in the theory of L-functions V, The theorems of Landau and Page, *Acta Arith.* 32 (1977), 163-171.
12. J. Pintz, Elementary methods in the theory of L-functions VI, On the least prime quadratic residue (mod p), *Acta Arith.* 32 (1977), 173-178.
13. J. Pintz, Elementary methods in the theory of L-functions VII, Upper bounds for $L(1, \chi)$, *Acta Arith.* 32 (1977), 397-406.
14. J. Pintz, Corrigendum: „Elementary methods in the theory of L-functions VII, Upper bound for $L(1, \chi)$ ”, *Acta Arith.* 33 (1977), pp. 293-295.
15. J. Pintz, Elementary methods in the theory of L-functions VIII, Real zeros of real L-functions, *Acta Arith.* 33 (1977), 89-98.
16. J. Pintz, On the sign changes of $\pi(x) - \text{li}(x)$, *Journées Arithmétiques de Caen*, Société Mathématique de France, Astérisque 41-42 (1977), 255-265.
17. J. Pintz: Problems and results in prime number theory (in hungarian), *Középiskolai Matematikai Lapok*, 55 (1977), 197-206.
18. J. Pintz: Paul Turán's work in number theory (in hungarian), *Matematikai Lapok*, 26 (1975), 139-153.
19. J. Pintz: Gauss' work in number theory (in hungarian), *Természet Világa*, 108 (1977), 525-526.
20. J. Pintz: Siegel roots and the prime number theorem (Hungarian), *Mat. Lapok* 27 (1976-79), pp. 355-360.

21. P. Turán, On a problem of E. Landau. Completed by János Pintz. Publ. Math. Res. Inst. Istanbul, 7, Proc. Nevanlinna Symposium on Complex Analysis, pp. 131-142, Univ. Istanbul, Istanbul 1978.
22. J. Pintz, On the remainder term of the primer number formula I, On a problem of Littlewood, Acta Arith. 36 (1979), 27-51.
23. J. Pintz, On the remainder term of the prime number formula II, On a theorem of Ingham, Acta Arith. 37 (1980), 209-220.
24. J. Pintz: On the remainder term of the prime number formula III, Sign changes of $\pi(x) - \text{li}(x)$, Studia Sci. Math. Hungar. 12 (1977), 345-369.
25. J. Pintz, On the remainder term of the prime number formula IV, Sign changes of $\pi(x) - \text{li}(x)$, Studia Sci. Math. Hungar. 13 (1978), 29-42.
26. J. Pintz, On Legendre's prime number formula, Amer. Math. Monthly 87 (1980), 733-735.
27. J. Pintz: Irregularities in the distribution of primes, Recent progress in analytic number theory, Proc. of. the Analytic Number Theory Symposium, Durham, 1979, Vol. 1, pp. 289-301. Academic Press, London, 1981.
28. J. Pintz: On Paul Turán's work in number theory, J. Number Theory, 13 (1981), 279-288.
29. J. Pintz, Oscillatory properties of the remainder term of the prime number formula, Studies in pure mathematics, To the memory of Paul Turán, Birkhäuser Verlag and Akadémia Kiadó, 1983, 551-556.
30. J. Pintz, On the asymptotic behaviour of a number theoretical function, Ann. Univ. Sci. Budapest, Sect. Math. 24 (1981), 51-56.
31. H. J. Benz, J. Pintz, Über das Tschebyschef-Problem, Resultate der Mathematik 5 (1982), 1-5.
32. H. J. Benz, J. Pintz, Über eine Verallgemeinerung des Tschebyschef-Problems, Math. Z. 174 (1980), 35-41.
33. H. J. Benz, J. Pintz, Quadratic residues and the distribution of prime numbers, 49 Monatshefte für Math. 90 (1980), 91-100.
34. J. Komlós, J. Pintz, E. Szemerédi, On Heilbronn's triangle problem, J. London Math. Soc. (2) 24 (1981), 385-396.
35. J. Komlós, J. Pintz, E. Szemerédi, A lower bound for Heilbronn's problem, J. London Math. Soc. (2) 25 (1982), 13-24.
36. J. Pintz, On the sign changes of $M(x) = \sum_{n \leq x} \mu(n)$, Analysis 1 (1981), 191-195.
37. J. Pintz, Oscillatory properties of $M(x) = \sum_{n \leq x} \mu(n)$, I, Acta Arith., 42 (1982), 49-55.
38. J. Pintz, On the remainder term of the prime number formula V, Effective mean value theorems, Studia Sci. Math. Hungar. 15 (1980), 215-223.
39. J. Pintz, On the remainder term of the prime number formula VI, Effective mean value theorems, Studia Sci. Math. Hungar. 15 (1980), 225-230.
40. M. Ajtai, J. Komlós, J. Pintz, J. Spencer, E. Szemerédi, Extremal uncrowded hypergraphs, Journal of Combinatorial Theory 32 (1982), 321-335.
41. J. Pintz: On the partial sums of the Möbius function, Coll. Math. Soc. J. Bolyai 34, Topics in Classical Number Theory, Ed. G. Halász, Elsevier/North Holland, 1984, pp. 1229-1250.
42. J. Komlós, J. Pintz, E. Szemerédi, On a problem of Erdős and Strauss, Coll. Math. Soc. J. Bolyai 34, Topics in Classical Number Theory, Ed. G. Halász, Elsevier/North Holland (1984), 927-960.

43. J. Pintz, Oscillatory properties of $M(x) = \sum_{n \leq x} \mu(n)$ II, *Studia Sci. Math., Hungar.* 15 (1980), 491-496.
44. J. Pintz, Oscillatory properties of $M(x) = \sum_{n \leq x} \mu(n)$ III, *Acta Arith.* 43 (1984), 105-113.
45. J. Pintz, On primes in short intervals I, *Studia Sci. Math. Hungar.* 16 (1981), 395-414.
46. A. Balog, G. Harman, J. Pintz, Numbers with a large prime factor III., *Quart. J. Math. Oxford* 34 (1983), 133-140.
47. A. Balog, G. Harman, J. Pintz, Numbers with a large prime factor IV., *J. London Math. Soc.* 28 (1983), 218-226.
48. Paul Turan, On a new method of the analysis and its applications. With the assistance of G. Halász and J. Pintz. John Wiley and Sons, Inc. New York (1984 xvi+584 pp.)
49. J. Pintz, Primes in short intervals II, *Studia Sci. Math. Hung.* 19 (1984) 83-96.
50. J. Pintz, Prime numbers in short intervals, *Banach Center Publications* 17, 419-429, Warsaw 1985.
51. J. Pintz, On the mean-value of the remainder term of the prime number formula, *Banach Center Publications* 17 (1985), 411-417.
52. J. Pintz, Note on the distribution of primes in short intervals, *Acta Math. Acad. Sci. Hungar.* 44 (1984), 335-338.
53. J. Pintz, On the distribution of square free numbers, *J. London Math. Soc.* 28 (1983), 401-405.
54. J. Pintz, On the remainder term of the prime number formula and the zeros of Riemann's zeta-function, *Number Theory Nordwijkerhout 1983*. Ed. by H. Jager, pp. 186-197, Springer Lecture Notes in Mathematics No. 1068, Berlin-Heidelberg-New York-Tokyo, 1984.
55. J. Pintz, S. Salerno: Irregularities in the distribution of primes in arithmetic progressions I, *Arch. Math.*, 42 (1984), 439-447.
56. J. Pintz, S. Salerno: Irregularities in the distribution of primes in arithmetic progressions II, *Arch. Math.*, 43 (1984), 351-357.
57. J. Pintz, S. Salerno: On the comparative theory of primes, *Ann. Scuola Norm. Sup. Pisa*, (4) 11 (1984), 245-260.
58. J. Pintz, S. Salerno, Accumulation theorems for primes in arithmetic progression, *Acta Mat. Acad. Sci. Hungar.* 46 (1985), 151-172.
59. J. Pintz, S. Salerno: Some consequences of the general Riemann hypothesis in the comparative theory of primes, *Journal of Number Theory*, 23 (1986), 183-194.
60. J. Pintz, Irregularity problems in the theory of the distribution of prime numbers (in hungarian), D. Sc. Thesis, Hungarian Academy of Sciences, Budapest, 1984.
61. H. Iwaniec, J. Pintz, Primes in short intervals, *Monatsh. f. Math.* 98 (1984), 115-143.
62. W. Dette, J. Meier, J. Pintz, Bemerkungen zu einem Satz von Ingham über die Verteilung der Primzahlen, *Acta Math. Acad. Sci. Hung.* 45 (1985), 121-132.
63. G. Harman, J. Pintz, D. Wolke, A note on the Möbius and Liouville-functions, *Studia Sci. Math. Hungar.* 20 (1985), 295-299.
64. R. C. Baker, J. Pintz, The distribution of square-free numbers, *Acta Arith.* 46 (1985), 73-79.
65. A. Balog, J. Friedlander, J. Pintz, Large prime factors of integers in an arithmetic progression, *Studia Sci. Math. Hungar.* 22 (1987), 175-188.

66. J. Kaczorowski, J. Pintz, Oscillatory properties of arithmetic functions I, *Acta Math. Acad. Sci. Hung.* 48 (1986), 173-185.
67. A. Perelli, J. Pintz, S. Salerno, Bombieri's theorem in short intervals, *Ann. Scuola Norm. Sup. Pisa* 11 (1985), 529-539.
68. A. Perelli, J. Pintz, S. Salerno, Bombieri's theorem in short intervals II, *Invent. Math.* 79 (1985), 1-9.
69. A. M. Odlyzko, J. Pintz, K. B. Stolarski, Partitions of planar sets into small triangles, *Discrete Mathematics* 57 (1985), 89-97.
70. J. Pintz, W. L. Steiger, E. Szemerédi, Two infinite sets of primes with fast primality tests, *Proc. STOC*, Chicago, 1988, 504-509, ACM PRESS, New York, 1988.
71. J. Kaczorowski, J. Pintz, Oscillatory properties of arithmetic functions II, *Acta Math. Hung.* 49 (1987), 441-453.
72. J. Pintz, An effective disproof of the Mertens Conjecture, *Astérisque* 147-148 (1987), 325-333.
73. J. Pintz, A note on the exceptional set in Goldbach's problem, *Coll. de Théorie Analytique des Nombres „Jean Coquet”*, *Publ. Math. d'Orday* 88-02 (1988), 101-115.
74. J. Pintz, W. L. Steiger, E. Szemerédi, On sets of natural numbers whose difference set contains no squares, *J. London Math. Soc.* (2) 37 (1988), 219-231.
75. J. Pintz, Elementary methods in the theory of L-functions IX, Density theorems, *Acta Arith.* 49 (1988), 387-394.
76. S. W. Graham, J. Pintz, The Distribution of r-free numbers, *Acta Math. Hung.* 53 (1989), 213-236.
77. R. Brünner, A. Perelli and J. Pintz, The exceptional set for the sum of a prime and a square, *Acta Math. Hung.* 53 (1989), 347-365.
78. M. Ajtai, H. Iwaniec, J. Komlós, J. Pintz, E. Szemerédi, Construction of a thin set with small Fourier coefficients, *Bull. London Math. Soc.* 22 (1990), 583-590.
79. J. Pintz, W. L. Steiger, E. Szemerédi, Infinite Sets of Primes with Fast Primality Tests and Quick Generation of Large Primes, *Math. Comp.* 53 (1989), 399-406.
80. J. Pintz, On an assertion of Riemann concerning the distribution of prime numbers, *Acta Math. Hung.* 58 (1991), 383-387.
81. A. Perelli, J. Pintz, On the exceptional set in the $2k$ -twin primes problem, *Compositio Math.* 82 (1992), 355-372.
82. E. Bombieri, A. Granville, J. Pintz, Squares in arithmetic progressions, *Duke Math. J.* 66 (1992), 369-385.
83. A. Perelli, J. Pintz, On the exceptional Set for Goldbach's problem in short intervals, *Journ. Lond. Math. Soc.* (2) 47 (1993), 41-49.
84. J. Kaczorowski, A. Perelli and J. Pintz, A note on the exceptional set for Goldbach's problem in short intervals, *Mh. Math.* 116 (1993), 275-282.
85. A. Balog, J. Pelikán, J. Pintz, E. Szemerédi: Difference sets without k -th powers. *Acta Math. Hung.* 65 (1994), 165-187.
86. J. Kaczorowski, A. Perelli, J. Pintz, Corrigendum: „A note on the exceptional set for Goldbach's problem in short intervals”, *Monatsh. Math.* 119 (1995), No. 3, 215-216.
87. A. Perelli, J. Pintz, Hardy-Littlewood numbers in short intervals, *J. Number Theory* 54 (1995), 297-308.
88. J. Pintz, Very large gaps between consecutive primes, *J. Number Theory* 63 (1997), 286-301.
89. R. C. Baker, G. Harman, J. Pintz, The exceptional set for Goldbach's problem in short intervals, *Sieve Methods, Exponential Sums and their Applications in Number*

Theory, Eds. G. R. H. Greaves, G. Harman, M. N. Huxley, pp. 1-57, Cambridge University Press, 1997.

90. J. Pelikán, J. Pintz, E. Szemerédi: On the running time of the Adleman-Pomerance-Rumely, primality test, Dedicated to Professor Kálmán Györy on the occasion of his 60th birthday, *Publ. Math. Debrecen*, 56 (2000), 523-534.
91. R. C. Baker, G. Harman, J. Pintz, The difference between consecutive primes II, *Proc. London Math. Soc.* (3) 83 (2001), 532-562.
92. J. Pintz and I. Z. Ruzsa, On Linnik's approximation to Goldbach's problem, I. *Acta Arith.* 109 (2003), 169-194.
93. A. Khalfallah, J. Pintz, On the representation of Goldbach numbers by a bounded number of powers of two, *Elementare und Analytische Zahlentheorie (Tagungsband)*, Proceedings ELAZ-Conference Mainz, May 24-28, 2004, W. Schwarz, J. Steuding Eds., Franz Steiner Verlag, Wiesbaden, 2006, pp.129-142.
94. J. Pintz, Recent results on the Goldbach conjecture, *Elementare und Analytische Zahlentheorie (Tagungsband)*, Proceedings ELAZ-Conference May 24-28, 2004, Schwarz, J. Steuding Eds., Franz Steiner Verlag, Wiesbaden, 2006, pp.220-254.
95. J. Pintz, A note on Romanov's constant, *Acta Math. Hungar.* 112 (2006), no. 1-2, 1-14
96. D. A. Goldston, Y. Motohashi, J. Pintz, C. Y. Yildirim, Small Gaps between Primes Exist, (math. NT/0505300, AIM 2005-13. NT,) *Proc. Japan Acad.*, 82 , SerA (2006), No.4, 61-65
97. D. A. Goldston, J. Pintz, C. Y. Yildirim, The Path to Recent Progress on Small Gaps Between Primes, *Analytic Number theory. A tribute to Gauss and Dirichlet*, Proceedings of the Gauss-Dirichlet Conference, Göttingen, Germany, June 20-24, 2005 *Clay Mathematics Proceedings Vol. 7*, W. Duke, Y. Tschinkel, AMS, Providence, RI and Clay Mathematical Institute, Cambridge, MA, 2007, pp. 129-139.
98. D. A. Goldston, J. Pintz, C. Y. Yildirim, Primes in Tuples I., *Annals of Math.*, to appear, math. NT/0508185, AIM 2005-19. NT, 36 pages,
99. D. A. Goldston, S. W. Graham, J. Pintz, C. Y. Yildirim, Small Gaps Between Primes or Almost Primes, math. NT/0506067, AIM 2005-14, 49 pages, *Trans. Amer. Math. Soc.*, to appear
100. Y. Motohashi, J. Pintz, A Smoothed GPY Sieve, math. NT/0602599, AIM 2006-7. NT, 15 pages, *Bull. London Math. Soc.*, 40 (2008), no. 2, 298-310.
101. D. A. Goldston, J. Pintz, C. Y. Yildirim, Primes in Tuples III, *Functiones et Approximatio*, 35 (2006), 76-89.
102. J. Pintz, Cramér vs. Cramér. On Cramér's probabilistic model for primes, *Functiones et Approximatio* 37 (2007), no.1, 361-376.
103. Landau's problems on primes, 42 pages, 25th Journées Arithmétiques, July 2-6, 2007, Edinburgh, *J. Théor. Nombres Bordeaux*, to appear
104. A. Languasco, J. Pintz, A. Zaccagnini, On the sum of two primes and k powers of two, *Bull. London Math. Soc.* 39 (2007), 771-780.
105. J. Pintz, Approximations to the Goldbach and twin prime problem and gaps between consecutive primes, *Advanced Studies in Pure Mathematics* 49 (2007), Probability and Number theory – Kanazawa 2005, Eds. K. Matsumoto, H. Sugita, Mathematical Society of Japan, Tokyo, pp. 323-365.
106. D. A. Goldston, J. Pintz, C. Y. Yildirim, Primes in Tuples II, *Acta math.*, to appear
107. D. A. Goldston, S. W. Graham, J. Pintz, C. Y. Yildirim, Small Gaps Between Products of Two Primes, *Proc. London Math. Soc.*, 2008, doi: 10.1112/plms/pdn046;