

## LIST OF PAPERS OF CRISTIAN COBELI

- C. Cobeli, M. Prunescu, A. Zaharescu, *A growth model based on the arithmetic Z-game*, Chaos Solitons Fractals **91** (2016), 136–147. <https://arxiv.org/abs/1511.04315>
- J. S. Athreya, C. Cobeli, A. Zaharescu, Radial density in Apollonian packings, Int. Math. Res. Not. IMRN (2015), no. 20, 9991–10011. <https://arxiv.org/abs/1409.6352>
- C. Cobeli, A. Zaharescu, On the geometry behind a recurrent relation, Carpathian J. Math. **31** (2015), no. 2, 165–172. <https://arxiv.org/abs/1411.1321>
- C. Cobeli, A. Zaharescu, *Zig zag printre cercuri și perpendiculare*, A XVII-a Conferință Națională a SSMR, Dimitrie Pompeiu - 140 de ani de la naștere, 18-20 Octombrie 2013, editura Taida, 2014, pp. 49–64 ISBN 978-606-514-221-3.
- C. Cobeli, A. Zaharescu, *A game with divisors and absolute differences of exponents*, J. Difference Equ. Appl. **20** (2014), no. 11, 1489–1501. <https://arxiv.org/abs/1411.1334>
- C. Cobeli, Y. Gallot, P. Moree, A. Zaharescu, *Sister Beiter and Kloosterman: a tale of cyclotomic coefficients and modular inverses*, Indag. Math. (N.S.) **24** (2013), no. 4, 915–929. <https://arxiv.org/abs/1209.3627>
- C. Cobeli, A. Zaharescu, *Promenade around Pascal triangle—number motives*, Bull. Math. Soc. Sci. Math. Roumanie (N.S.) **56**(104) (2013), no. 1, 73–98.
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *The distribution of rationals in residue classes*, Math. Rep. (Bucur.) **14**(64) (2012), no. 1, 1–19.
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *A density theorem on even Farey fractions*, Rev. Roumaine Math. Pures Appl. **55** (2010), no. 6, 447–481.
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *On the intervals of a third between Farey fractions*, Bull. Math. Soc. Sci. Math. Roumanie (N.S.) **53**(101) (2010), no. 3, 239–250.
- C. Cobeli, A. Zaharescu, *On the Farey fractions with denominators in arithmetic progression*, J. Integer Seq. **9** (2006), no. 3, Article 06.3.4, 26 pp.
- C. Cobeli, L. Panaitopol, M. Vâjâitu, A. Zaharescu, *Some asymptotic formulas involving primes in arithmetic progressions*, Comment. Math. Univ. St. Pauli **53** (2004), no. 1, 23–35.
- F. P. Boca, C. Cobeli, A. Zaharescu, *On the distribution of the Farey sequence with odd denominators*, Michigan Math. J. **51** (2003), no. 3, 557–573. <https://arxiv.org/abs/math/0201046>
- C. Cobeli, K. Ford, A. Zaharescu, *The jumping champions of the Farey series*, Acta Arith. **110** (2003), no. 3, 259–274.
- C. Cobeli, A. Zaharescu, *The Haros-Farey sequence at two hundred years*, part 1, part 2, Acta Univ. Apulensis Math. Inform. No. 5 (2003), 1–38.
- C. Cobeli, S. M. Gonek, A. Zaharescu, *The distribution of patterns of inverses modulo a prime*, J. Number Theory **101** (2003), no. 2, 209–222.
- C. Cobeli, A. Iordache, A. Zaharescu, *The relative size of consecutive odd denominators in Farey series*, Integers **3** (2003), A7, 14 pp.
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *Distribution of gaps between the inverses mod q*, Proc. Edinb. Math. Soc. (2) **46** (2003), no. 1, 185–203.
- C. Cobeli, A. Zaharescu, *A question on the distribution of points on a curve over a finite field*, Acta Univ. Apulensis Math. Inform. No. **4** (2002), 65–76.

- C. Cobeli, M. Vâjâitu, A. Zaharescu, *A class of algebraic-exponential congruences modulo p*, Acta Math. Univ. Comenian. (N.S.) **71** (2002), no. 1, 113–117.
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *On the set  $ax + bg^x \pmod{p}$* , Port. Math. (N.S.) **59** (2002), no. 2, 195–203.
- C. Cobeli, G. Groza, M. Vâjâitu, A. Zaharescu, *Generalization of a theorem of Steinhaus*, Colloq. Math. **92** (2002), no. 2, 257–266.
- C. Cobeli, A. Zaharescu, *On the distribution of the  $\mathbf{F}_p$ -points on an affine curve in r dimensions*, Acta Arith. **99** (2001), no. 4, 321–329.
- F. P. Boca, C. Cobeli, A. Zaharescu, *A conjecture of R. R. Hall on Farey points*, J. Reine Angew. Math. **535** (2001), 207–236.
- A. Volker, F. P. Boca, C. Cobeli, A. Zaharescu, *The h-spacing distribution between Farey points*, Math. Proc. Cambridge Philos. Soc. **131** (2001), no. 1, 23–38.
- C. Cobeli, A. Zaharescu, *Generalization of a problem of Lehmer*, Manuscripta Math. **104** (2001), no. 3, 301–307.
- C. Cobeli, S. M. Gonek, A. Zaharescu, *On the distribution of small powers of a primitive root*, J. Number Theory **88** (2001), no. 1, 49–58.
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *Equidistribution of rational functions of primes mod q*, J. Ramanujan Math. Soc. **16** (2001), no. 1, 63–73.
- C. Cobeli, A. Zaharescu, *Distribution of a sparse set of fractions modulo q*, Bull. London Math. Soc. **33** (2001), no. 2, 138–148.
- C. Cobeli, A. Zaharescu, *The order of inverses mod q*, Mathematika **47** (2000), no. 1-2, 87–108 (2002).
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *Average estimates for the number of tuples of inverses mod p in short intervals*, Bull. Math. Soc. Sci. Math. Roumanie (N.S.) **43**(91) (2000), no. 2, 155–164.
- F. P. Boca, C. Cobeli, A. Zaharescu, *Distribution of lattice points visible from the origin*, Comm. Math. Phys. **213** (2000), no. 2, 433–470.
- C. Cobeli, M. Crâşmaru, A. Zaharescu, *A cellular automaton on a torus*, Portugal, Math. **57** (2000), no. 3, 311–323.
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *The sequence  $n! \pmod{p}$* , J. Ramanujan Math. Soc. **15** (2000), no. 2, 135–154.
- C. Cobeli, A. Zaharescu, *An exponential congruence with solutions in primitive roots*, Rev. Roumaine Math. Pures Appl. **44** (1999), no. 1, 15–22.
- C. Cobeli, A. Zaharescu, *On the distribution of primitive roots mod p*, Acta Arith. **83** (1998), no. 2, 143–153.
- C. Cobeli, *Topics on the distribution of inverses mod q*, Thesis (Ph.D.)—University of Rochester. 1997. 63 pp. ISBN: 978-0591-59262-7
- C. Cobeli, M. Vâjâitu, A. Zaharescu, *Graham's conjecture under Riemann hypothesis*, J. Number Theory **31** (1989), no. 1, 80–87.