

## List of publications (up dated 11.9.2024)

### Edita Pelantová - Šiňajová

#### Articles in refereed journals

1. Z. Masáková, E. Pelantová: Periodicity and pure periodicity in alternate base systems, *Research in Number Th.*, vol 10, Issue 3, (2024) DOI10.1007/s40993-024-00542-5 arXiv:2402.01367
2. Z. Masáková, E. Pelantová: Midy's Theorem in non-integer bases and divisibility of Fibonacci numbers, *Communications in Mathematics Volume 33* (2025), Issue 2
3. L. Dvořáková, Z. Masáková, E. Pelantová: 2-balanced sequences coding rectangle exchange transformation , *Theory Comput. Syst.* (2024). DOI10.1007/s00224-024-10188-6
4. L. Dvořáková, E. Pelantová, *The repetition threshold of episturmian sequences*, *European Journal of combinatorics* vol. 120 (2024) art.No 104001 arXiv:2309.00988, DOI10.1016/j.ejc.2024.104001
5. L. Dvořáková, E. Pelantová: An upper bound on asymptotic repetitive threshold of balanced sequences via colouring of the Fibonacci sequence, *Theoret. Comput. Sci.* 995 (2024), 114490
6. I. I. Farkas, E. Pelantová, M. Svobodová: From positional representation of numbers to positional representation of vectors, *Acta Polytechnica* **63** No.3 (2023) 188–198.
7. É. Charlier, C. Cisternino, Z. Masáková, E. Pelantová: Spectrum, algebraicity and normalization in alternate bases, *Journal of Number Theory*, **249** (2023) 470–499.
8. J. Lepšová, E. Pelantová, Š. Starosta: On a Faithful representation of Sturmian morphisms, *European Journal of Combinatorics* **110**, (2023) article no. 103707
9. L. Dvořáková, D. Opočenská, E. Pelantová: Asymptotic repetitive threshold of balanced sequences, *Mathematics of Computation*, **92** (2023) 1402–1429.
10. F. Dolce, L. Dvořáková, E. Pelantová, On balanced sequences and their critical exponent, *Theor. Comp. Sci* **939**. (2023) 18 –47.
11. L. Dvořáková, D. Opočenská, E. Pelantová, A. Shur: On minimal critical exponent of balanced sequences, *Theor. Comp. Sci* **922** (2022) 158–169.
12. F. Dolce, E. Pelantová: *On morphisms preserving palindromic richness*, *Fundamenta Informaticae*, **185** 1, (2022) 1–25.
13. E. Pelantová, T. Vávra: *On positional representation of integer vectors*, *Lin. Alg. & App.*, **633** (2022), 316–331.

14. P. Ambrož, Z. Masáková, E. Pelantová: *Lattice Bounded Distance Equivalence for 1D Delone Sets with Finite Local Complexity*, Journal of Geometry and Symmetry in Physics **59** (2021) 1-29
15. C. Lagisquet, E. Pelantová, S. Tavenas, L. Vuillon, *On the Markov numbers: fixed numerator, denominator, and sum conjectures*, Advances in Applied Mathematics **130**, (2021), 102227
16. J. Mazáč, Z. Masáková, E. Pelantová: *On generalized self-similarities of cut-and-project sets* Lin. Alg. & App. **625** (2021), 279-321.
17. E. Pelantová, Š. Starosta: *On Sturmian substitutions closed under derivation*, Theor. Comput. Sci, **867**, (2021), 128–139.
18. K. Medková, E. Pelantová, E. Vandomme: *On non-repetitive complexity of Arnoux-Rauzy words*, Disc. App. Math. **285** (2020), 423–433.
19. L. Dvořáková, K. Medková, E. Pelantová: *Complementary symmetric Rote sequences: the critical exponent and the recurrence function*, DMTCS **22** (1) (2020), #20.
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21. K. Medková, E. Pelantová, L. Vuillon: *Derivated sequences of complementary symmetric Rote sequences*, RAIRO-Theor. Inf. Appl. **53** (2019), 125–151.
22. Ch. Frougny, M. Pavelka, E. Pelantová, M. Svobodová: *On-line algorithms for multiplication and division in real and complex numeration systems*, DMTCS, **21** (3), (2019), # 14.
23. P. Ambrož, O. Kadlec, Z. Masáková, and E. Pelantová: *Palindromic length of words and morphisms in class  $P$* , Theor. Comput. Sci. **780**, (2019), 74 – 83,
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25. K. Klouda, K. Medková, E. Pelantová, Š. Starosta: *Fixed points of Sturmian morphisms and their derivated words*. Theor. Comput. Sci. **743**, (2018), 23-37.
26. S. Baker, Z. Masáková, E. Pelantová, T. Vávra: *On periodic representations in non-Pisot bases*, Monatshefte für Math., **184**(1), (2017), 1-19.
27. S. Labbé, E. Pelantová, Š. Starosta: *The Zero Defect Conjecture*, European J. Combin. **62** (2017), 132-146.
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32. S. Labbé, E. Pelantová: *Palindromic sequences generated from marked morphisms* European Journal of Combinatorics (2016), 200–214.
33. Z. Masáková, J. Pastirčáková, E. Pelantová: *Description of spectra of quadratic Pisot units* J. Num. Theory **150** (2015), 168-190.
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35. Ch. Frougny, P. Heller, E. Pelantová, M. Svobodová: *k-block parallel addition versus 1-block parallel addition in non-standard numeration systems* Theor. Comput. Sci. 543 (2014), 52–67
36. E. Pelantová, Š. Starosta: *Palindromic richness for languages invariant under more symmetries*, Theor. Comput. Sci. 518 (2014), 42–63,
37. T. Jajcayová, E. Pelantová, Š. Starosta: *Palindromic closure using multiple anti-morphisms*, Theor. Comp. Sci. 533 (2014), 37–45
38. K. Břinda, E. Pelantová, O. Turek: *Balances of m-bonacci words*, Fundam.Inform. 132(1), (2014) 33-61
39. Z. Masáková, E. Pelantová: *Itineraries induced by exchange of two intervals - věnováno k 75. narozeninám prof. M. Havlíčka*, Acta Polytechnica 53, (2013), 444–449
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42. L. Balková, E. Pelantová, Š. Starosta: *Proof of Brlek Reutenauer Conjecture*, Theor. Comp. Sci. 475 (2013), 120-125.
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### Refereed contributions in conference proceedings

1. L. Dvořáková, E. Pelantová, M. Mašek: On a class of 2-balanced sequences, In: Frid, A., MercaLž, R. (eds) *Combinatorics on Words. WORDS 2023. Lecture Notes in Computer Science*, vol 13899. Springer, Cham., 143-154
2. Z. Masáková, E. Pelantová, K. Studeničová: *Rewriting Rules for Arithmetics in Alternate Base Systems*. In: Drewes, F., Volkov, M. (eds) *Development in language Theory. DLT 2023. Lecture Notes in Computer Science*, vol 13899. Springer, Cham. 195–207.
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