

## List of publications (up dated 17. 6. 2020)

### Edita Pelantová - Šiňajová

#### Articles in refereed journals

1. Ľ. Dvořáková, K. Medková, E. Pelantová. *Complementary symmetric Rote sequences: the critical exponent and the recurrence function*, Discret. Math. Theor. Comput. Sci. 22(1) (2020)
2. P. Ambrož, Z. Masáková, and E. Pelantová. *Morphisms generating antipalindromic words*, Europ.J.Comb. Vol. 89, (2020), 103160
3. K. Medková, E. Pelantová, L. Vuillon, *Derived sequences of complementary symmetric Rote sequences*, RAIRO Theor. Informatics Appl. 53(3-4): 125-151 (2019)
4. Ch. Frougny, M. Pavelka, E. Pelantová, M. Svobodová, *On-line algorithms for multiplication and division in real and complex numeration systems*, DMTCS **21** no. 3, Discrete Algorithms (June 20, 2019) arxiv.org/abs/1610.08309
5. 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,
6. Ch. Frougny and E. Pelantová. *Two applications of the spectrum of numbers*, Acta Math. Hungar. 156 (2) (2018), 391-407.
7. K. Klouda, K. Medková, E. Pelantová, Š. Starosta *Fixed points of Sturmian morphisms and their derivated words*. Theor. Comput. Sci. 743: (2018), 23-37.
8. S. Baker, Z. Masáková, E. Pelantová, T. Vávra, *On periodic representations in non-Pisot bases*, Monatshefte für Math., **184**(1), (2017), 1-19.
9. S. Labbé, E. Pelantová, Š. Starosta, *The Zero Defect Conjecture*, European J. Combin. **62** (2017), 132-146.
10. Z. Masáková, E. Pelantová, Š. Starosta, *Exchange of three intervals: substitutions and palindromicity*, European J. Combin. **62** (2017), 217-231.
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12. E. Pelantová, Š. Starosta: *Constructions of word rich in palindromes and pseudopalindromes*, Discrete Mathematics & Theoretical Computer Science, vol. 18:3, 2016, #16
13. E. Pelantová, Š. Starosta, M. Znojil, *Markov constant and quantum instabilities*, J. Phys. A: Math. Theor. 49 155201 (2016)

14. S. Labbé, E. Pelantová: *Palindromic sequences generated from marked morphisms* European Journal of Combinatorics (2016), 200–214.
15. Z. Masáková, J. Pastirčáková, E. Pelantová: *Description of spectra of quadratic Pisot units* J. Num. Theory 150 (2015), 168-190.
16. T. Hejda, E. Pelantová: *Spectral properties of cubic complex Pisot units.* Math. Comput. 85(297) (2016)
17. Ch. Frougny, P. Heller, E. Pelantová, and M. Svobodová: *k-block parallel addition versus 1-block parallel addition in non-standard numeration systems* Theor. Comput. Sci. 543 (2014), 52–67
18. E. Pelantová, Š. Starosta: *Palindromic richness for languages invariant under more symmetries,* Theor. Comput. Sci. 518 (2014), 42–63,
19. T. Jajcayová, E. Pelantová, Š. Starosta: *Palindromic closure using multiple anti-morphisms,* Theor. Comp. Sci. 533 (2014), 37–45
20. K. Břinda, E. Pelantová, O. Turek: *Balances of m-bonacci words,* Fundam.Inform. 132(1), (2014) 33-61
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22. Z. Masáková, E. Pelantová: *Optimal number representation in negative bases,* Acta Math. Hungar. 140 (2013), 329–340.
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26. T. Hejda, Z. Masáková, E. Pelantová: *Greedy and lazy representations in negative base systems,* Kybernetika 49 (2013), 258–279,
27. Z. Masáková, E. Pelantová: *Purely periodic expansions in systems with negative base,* Acta Math. Hungar. 139 (2013), 208–227,
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39. L. Balková, E. Pelantová, Š. Starosta: *Sturmian Jungle (or Garden?) on Multiliteral Alphabets*, *RAIRO - Theor. Inf. Appl.* 44 (2010), 443-470.
40. M. Havlíček, E. Pelantová, J. Tolar: *On representations of  $sl(n, C)$  Compatible with  $Z_2$  grading*, *Acta Polytechnica*, 50 No.5 (2010) 30-39.
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43. K. Klouda, E. Pelantová: *Factor complexity of infinite words associated with non-simple Parry numbers*, *Integers - Electronic Journal of Combinatorial Number Theory* (2009), 281-310.

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49. L. Balková, J.-P. Gazeau, E. Pelantová: *Asymptotic Behavior of Beta-integers*, Letters in Mathematical Physics, 84, (2008), 179-198.
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### Refereed contributions in conference proceedings

1. P. Ambrož, E. Pelantová: *On palindromic length of Sturmian sequence*, In: P. Hofman, M. Skrzypczak (eds) *Developments in Language Theory. DLT 2019. Lecture Notes in Computer Science*, vol 11647, Springer, <http://arxiv.org/abs/1808.08879>.
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5. Ch. Frougny, P. Heller, E. Pelantová, and M. Svobodová: *Parallel algorithms for addition in non-standard number systems*, *Information Theory and Applications Workshop (ITA)*, 2014, Publisher IEEE, DOI 10.1109/ITA.2014.6804265,
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11. P. Baláži, E. Pelantová: *Cut-and-project sequences*, in *Proceedings Group24: Physical and Math. Aspects of Symmetries*, Eds. J.P. Gazeau, R. Kerner, A.P. Antoine, S. Métens, J.Y.Thibon, IoP Publishing Bristol (2003), 201- 204.



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16. Z. Masáková, J. Patera, E. Pelantová: *Acceptance windows compatible with a quasicrystal fragment*, From quasicrystals to more complex systems Eds. F. Axel, F. Denoyer, J.P. Gazeau, Lecture Notes of the Winter School Order, Chance and Risk, Les Houches, March 1998, Springer (2000), 167-193.
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### Preprints

1. Francesco Dolce, Edita Pelantová, *On morphisms preserving palindromic richness*
2. Jan Mazáč, Zuzana Masáková, Edita Pelantová, *On generalized self-similarities of cut-and-project sets* arXiv:1909.10753
3. Edita Pelantová, Štěpán Starosta, *On Sturmian substitutions closed under derivation*, 13 pp., <http://arxiv.org/abs/1908.11095>
4. Kateřina Medková, Edita Pelantová, Elisé Vandomme, *Non-repetitive complexity of Arnoux-Rauzy words*, arXiv

### Popularization articles (in Czech)

1. E. Pelantová, Š. Starosta: *Chvála struktur*, Rozhledy matematicko-fyzikální, 90, 1-2 (2015) 99–108.
2. E. Pelantová, Š. Starosta: *Nestandardní zápisy čísel*, (in Czech), Pokroky matematiky, fyziky a astronomie, roč. 56, č 4,(2011), 276–289.
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4. E. Pelantová: *Neobvyklé reprezentace čísel*, sborník 29. konference Historie matematiky, Matfyzpress 2008, ISBN 978-80-7378-048-7, pp. 153–155.
5. Z. Masáková, E. Pelantová, M. Svobodová: *Rozklad množiny přirozených čísel pomocí zlatého řezu*, Rozhledy matematicko-fyzikální 78 (2001), 8–15.
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### Editor of Proceedings

DI-CRM Workshop on Mathematical Physics. Papers from the workshop held at the Czech Technical University, Prague, June 18-21, 2000. Edited by Z. Masáková, E. Pelantová and J. Tolar. Czechoslovak J. Phys. 51 (2001), no. 4., 281-428.

### Textbooks (in Czech)

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