

## Publications in the period 01.02.2014-31.12.2014

1. Kritzer P., Pillichshammer F. and Woźniakowski H.: Tractability of multivariate analytic problems. In: *Uniform Distribution and Quasi-Monte Carlo Methods. Discrepancy, Integration and Applications* (P. Kritzer, H. Niederreiter, F. Pillichshammer and A. Winterhof eds.) De Gruyter, Berlin, 2014. [arXiv:1407.1615](#).
2. Dick J. and Pillichshammer F.: Explicit constructions of point sets and sequences with low discrepancy. In: *Uniform Distribution and Quasi-Monte Carlo Methods. Discrepancy, Integration and Applications* (P. Kritzer, H. Niederreiter, F. Pillichshammer and A. Winterhof eds.) De Gruyter, Berlin, 2014. [arXiv:1308.4252](#)
3. Larcher G., Pillichshammer F., Winterhof A., and Xing C.P.: Some highlights of Harald Niederreiter's work. In: *Applied Algebra and Number Theory* (G. Larcher, F. Pillichshammer, A. Winterhof, and C.P. Xing eds.) Cambridge University Press, Cambridge. pp. 1–18, 2014. [arXiv:1407.3630](#)
4. Del Chicca L. and Larcher G.: Hybrid Monte Carlo Methods for Credit Risk Management. In: *Monte Carlo Methods and Applications*. pp. 245–260, 2014, [arXiv:1405.1831](#).
5. Faure H., Kritzer P.: Discrepancy bounds for low-dimensional point sets. In: *Applied Algebra and Number Theory* (G. Larcher, F. Pillichshammer, A. Winterhof, and C.P. Xing, eds.). Cambridge University Press, Cambridge. pp. 58–90, 2014. [arXiv:1407.0819](#).
6. Winterhof A.: Generalizations of complete mappings of finite fields and some applications. In: *J. of Symbolic Computation* (64), pp. 42–52, 2014. [PDF](#).
7. Chen Z., Winterhof A.: Interpolation of Fermat quotients. In: *SIAM J. Discrete Math.* (28), no.1, pp. 1–7, 2014. [PDF](#).
8. Khan M., Magner R., Senger S., Winterhof A.: Two combinatorial geometric problems involving modular hyperbolas. In: *Integers*. Vol. 14, HA33, pp.21, 2014. [PDF](#).
9. Chen Z., Shparlinski I., Winterhof A.: Covering sets for limited magnitude errors. In: *IEEE Trans. Inf. Th.*, Vol. 60, pp. 5315–5321, 2014. [arXiv:1310.0120](#).
10. Leobacher G.: A short introduction to quasi-Monte Carlo option pricing. In: *Uniform distribution and quasi-Monte Carlo methods - Discrepancy, Integration and Applications* (P. Kritzer, H. Niederreiter, F. Pillichshammer and A. Winterhof eds.), De Gruyter, Berlin, 2014. [arXiv: 1707.04293](#).
11. Grabner P.J.: Point sets of minimal energy. In: *Applied Algebra and Number Theory* (G. Larcher, F. Pillichshammer, A. Winterhof, and C.P. Xing, eds.). Cambridge University Press, Cambridge. pp. 109–125, 2014. [PDF](#).
12. Hellekalek P.: The hybrid spectral test: a unifying concept. In: *Uniform Distribution and Quasi-Monte Carlo Methods. Discrepancy, Integration and Applications* (P. Kritzer, H. Niederreiter, F. Pillichshammer and A. Winterhof eds.) De Gruyter, Berlin, 2014.
13. Hellekalek P.: On an important family of inequalities of Niederreiter involving exponential sums. In: *Applied Algebra and Number Theory* (G. Larcher, F. Pillichshammer, A. Winterhof, and C.P. Xing, eds.). Cambridge University Press, Cambridge. pp. 144–163, 2014. [Pdf](#).
14. Kritzer P., Larcher G., Pillichshammer F.: Discrepancy estimates for index-transformed uniformly distributed sequences. In: *Funct. Approx. Comment. Math.* 51, 197–220, 2014. [arXiv:1407.8287](#).

15. Bergelson V., Kolesnik G., Madritsch M., Son Y., Tichy R.: Uniform distribution of prime powers and sets of recurrence and van der Corput sets in  $Z^k$ . In: *Israel Journal of Mathematics*. 2014. [arXiv:1304.4641](https://arxiv.org/abs/1304.4641).
16. Larcher G., Drmota M., Grabner P., Hellekalek P., Hofer R., Kritzer P., Leobacher G., Pillichshammer F., Tichy R., Winterhof A.: The FWF-Special Research Area "Quasi-Monte Carlo Methods: Theory and Applications". In: *Int. Math. Nachrichten*, Nr. 226, pp. 1–19., 2014. [PDF](#).
17. Drmota M.: Subsequences of automatic sequences and uniform distribution, Proceedings RICAM Workshop "Uniform Distribution and Quasi-Monte Carlo Methods". In: *Radon Series on Computational and Applied Mathematics 15* (P. Kritzer, H. Niederreiter, F. Pillichshammer, A. Winterhof, eds.). De Gruyter. pp. 87–104, 2014. [Link](#).
18. Spiegelhofer L.: Piatetski-Shapiro Sequences via Beatty Sequences. In: *Acta Arith.* 166, pp. 201–229, 2014. [arXiv:1707.05094](https://arxiv.org/abs/1707.05094).
19. Dick J., Pillichshammer F.: The inverse of the star-discrepancy problem and the generation of pseudo-random numbers. In: *Sequences and their applications-SETA 2014* (K.-U. Schmidt and A. Winterhof, eds.). Lecture Notes in Comput. Sci., Vol. 8865, pp. 173–184, Springer, Heidelberg, 2014. [arXiv:1407.4208](https://arxiv.org/abs/1407.4208)
20. Hofer R., Pirsic I.: Controlling the shape of generation matrices in global function field constructions of digital sequences. In: *Applied Algebra and Number Theory*. Cambridge University Press, Cambridge. pp. 164–189, 2014. [PDF](#).
21. Pirsic I., Winterhof A.: On discrete Fourier transform, ambiguity, and Hamming-autocorrelation of pseudorandom sequences. In: *Designs Codes and Cryptography.*, Vol. 73, no.2, pp. 319–328, 2014. [PDF](#).
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23. Larcher G.: Discrepancy estimates for sequences: new results and open problems. In: *Uniform distribution and quasi-Monte Carlo methods - Discrepancy, integration and applications*, De Gruyter, Berlin, pp. 171–190, 2014. [arXiv:1407.2380](https://arxiv.org/abs/1407.2380).
24. Dick J. and Pillichshammer F.: Discrepancy theory and quasi-Monte Carlo integration. In: *A Panorama of Discrepancy Theory* (W. Chen, A. Srivastav and G. Travaglino, eds.), pp. 539–619, Springer, 2014. DOI: [https://doi.org-1007e44ba23f3.han.ubl.jku.at/10.1007/978-3-319-04696-9\\_9](https://doi.org/10.1007/978-3-319-04696-9_9)