

LIST OF PUBLICATIONS

by Szilárd György Révész

Publications in Refereed Journals

- [1] On the least prime in an arithmetic progression, *Studia Sci. Math. Hung.* **15** (1980), 83-87. MR 84d:10049.
- [2] Irregularities in the distribution of prime ideals I, *Studia Sci. Math. Hung.* **18** (1983), 57-67. MR 85i:11072.
- [3] Irregularities in the distribution of prime ideals II, *Studia Sci. Math. Hung.* **18** (1983), 343-369. MR 86g:11050.
- [4] Note on a problem of Q. I. Rahman and P. Turán, *Acta Math. Hung.* **44** (1984), 367-377. MR 86c:30058.
- [5] Effective oscillation theorems for a general class of real-valued remainder terms, *Acta Arith.* **49** (1988), 481-505. MR 90e:11131.
- [6] (joint with M. Laczkovich) Periodic decompositions of continuous functions, *Acta Math. Hung.* **54(3-4)** (1989), 329-341. MR 90k:26006.
- [7] On the Convergence of Fourier Series of U.A.P. Functions, *J. Math. Anal. & Appl.*, **151** (1990), 308-317. MR 91m:42029.
- [8] Rearrangement of Fourier series, *Journal of Approximation Theory*, **60** (1990), 101-121. MR 90m:42042.
- [9] (joint with M. Laczkovich) Decompositions into periodic functions belonging to a given Banach space, *Acta Math. Hung.*, **55(3-4)** (1990), 353-363. MR 92a:39003.
- [10] Some trigonometric extremal problems and duality, *J. Australian Math. Soc. (Series A)* **50** (1991), 384-390. MR 92d:42002.
- [11] A Fejér-type extremal problem, *Acta Math. Hung.* **57(3-4)** (1991), 279-283. MR 93f:42003.
- [12] (joint with I. Z. Ruzsa) On approximating Lebesgue integrals by Riemann sums, *Glasgow Math. J.* **33** (1991) 129-134. MR 92g:26011.
- [13] On a class of extremal problems, *Approximation Theory & Appl.* **7** (1991), 86-96. MR 93f:42004.
- [14] Rearrangement of Fourier series and Fourier series whose terms have random signs, *Acta Math. Hung.* **63** (1994), 395-402. MR 95f:42021.

- [15] On Beurling's Prime Number Theorem, *Periodica Math. Hung.*, **28** (1994), 195–210. MR 96c:11114.
- [16] Fourier Synthesis of Bounded Mean Periodic Functions by Rearrangement of Fourier Series, *J. Analysis*, **3** (1995), 179-188. MR 96c:42009.
- [17] Minimization of maxima of nonnegative and positive definite cosine polynomials with prescribed first coefficients, *Acta Sci. Math. (Szeged)*, **60** (1995), 589-608. MR 96k:42001.
- [18] The Least Possible Value at Zero of Some Nonnegative Cosine Polynomials and Equivalent Dual Problems, *J. Fourier Anal. & Appl.*, **Kahane Special Issue** (1995), 485-508. MR 97c:42002.
- [19] (joint with [A. Kroó](#)) On Bernstein and Markov-type inequalities for multivariate polynomials on convex bodies, *J. Approx. Theory*, **99** (1999), 134-152. MR 2000e:41026, Zbl 0952.41012.
- [20] Uniqueness of Markov-extremal polynomials on symmetric convex bodies, *Constructive Approximation*, **17** (2001), 465-478. MR 2002b:41015, Zbl 0996.41012.
- [21] Uniqueness of multivariate Chebyshev-type extremal polynomials for convex bodies, *East J. Approx.*, **7** (2001), 205-240. MR 1856822 (2002j:41026), Zbl pre05021942.
- [22] (joint with [Y. Sarantopoulos](#)) Chebyshev's extremal problems of polynomial growth in real normed spaces, *J. Contemp. Math. Anal. (Armen. Acad. Sci.)*, **36** (2001) no. 5, 59-80 (2002). MR 1964583 (2004b:41042).
- [23] (joint with [M. Kolountzakis](#)) On a problem of Turán about positive definite functions, *Proc. Amer. Math. Soc.*, **131** (2003), no. 11, 3423-3430 MR 1 990 631, Zbl 1042.42004.
- [24] (joint with [Y. Sarantopoulos](#)) On Markov constants of homogeneous polynomials over real normed spaces, *East J. Approx.*, **9** (2003), no. 3, 277-304. MR 2 009 654 (2004h:41011) (2004c:42017).
- [25] (joint with [Y. Sarantopoulos](#)) Plank problems, polarization, and Chebyshev constants, *J. Korean Math. Soc.*, **41** (2004) no. 1, 157-174. MR 2048707 (204m:46033), Zbl 1047.46036.
- [26] (joint with [Y. Sarantopoulos](#)) A generalized Minkowski functional with applications in approximation theory, *J. Convex Analysis*, **11** (2004), No. 2, 303-334. MR 2158907 (2006e:52001), Zbl 1068.46008.
- [27] On generalized strong A -summability, *Sci. Math. Jap.*, **60** no. 3 (2004), 595-611, MR 2099590 (2005h:40020), Zbl 1071.40003.
- [28] Some polynomial inequalities on real normed spaces, *Publicaciones del Dpto. de Análisis del Matemático*, Sección 1 **Núm. 63** (2004), 111-135.
- [29] (joint with [A. Pappas](#)) Linear polarization constants of Hilbert spaces, *J. Math. Anal. Appl.*, **300** (2004), 129-146. MR 2100242 (2005h:46072), Zbl 1081.46021.

- [30] (joint with L. B. Milev) Bernstein's inequality for multivariate polynomials on the standard simplex, *J. Inequalities and Appl.*, **2005:2** (2005), 145–163. MR 2173358 (2006g:41026), Zbl 1082.41010.
- [31] (joint with V. Anagnostopoulos) Polarization constants for products of linear functionals over \mathbf{R}^2 and \mathbf{C}^2 and the Chebyshev constants of the unit sphere, *Publ. Math. Debrecen*, **68/1-2** (2006), 63–75. MR 2213542.
- [32] (joint with B. Farkas), Rendezvous numbers in normed spaces, *Bull. Austr. Math. Soc.*, **72** (2005), 423–440. MR 2199644.
- [33] (joint with B. Farkas), Rendezvous numbers of metric spaces – a potential theoretic approach, *Archiv der Mathematik*, **86** (2006), 268–281. MR 2215316, Zbl pre05024118.
- [34] (joint with B. Farkas) Potential theoretic approach to rendezvous numbers, *Monatshefte für Mathematik*, **148** (2006), 309–331.
- [35] (joint with B. Farkas), Tiles with no spectra in dimension 4, *Math. Scand.*, **98** no. 1 (2006), 44–52. MR 2221543.
- [36] A comparative analysis of Bernstein type estimates for the derivative of multivariate polynomials *Annales Polonici Mathematici* **88.3** (2006), 229–245.
- [37] Inequalities for multivariate polynomials, *Annals of the Marie Curie Fellowships*, **4** (2006), (electronic), <http://www.mariecurie.org/annals/>.
- [38] Turán-type converse Markov inequalities for convex domains on the plane, *J. Approx. Theory*, **141** No. 2 (August 2006), 162–173.
- [39] (joint with M. Kolountzakis) On pointwise estimates of positive definite functions with given support, *Canad. J. Math.*, **58** (2) (2006), 401–418. MR 2209285.
- [40] (joint with M. Kolountzakis) Turán's extremal problem for positive definite functions on groups, *J. London Math. Soc.* **74** (2006), 475–496.
- [41] On a paper of Erőd and Turán-Markov inequalities for non-flat convex domains, *East J. Approx.* **12** No. 4 (2006), 451–467.
- [42] (joint with N. N. Reyes, G. A. M. Velasco), Oscillation of Fourier Transforms and Markov-Bernstein Inequalities, *J. Approx. Theory*, **145** (2007), 100–110.
- [43] On some extremal problems of Landau, *Serdica Math. J.*, **33** (2007), 125–162.
- [44] (joint with B. Farkas) Decomposition as the sum of invariant functions with respect to commuting transformations, *Aequationes Math.* **73** (2007), 233–248.
- [45] (joint with A. Bonami) Failure of Wiener's property for positive definite periodic functions, *Comptes Rendus Mathématique*, Volume **346**, Issues 1-2, January-February 2008, Pages 39–44.

- [46] Schur type inequalities for polynomials with no zeros in the unit disk, Volume **2007** (2007), Article ID 90526, 10 pages (electronic), doi:10.1155/2007/90526, <http://www.hindawi.com/journals/jia/volume-2007>.
- [47] (joint with B. Farkas), Positive bases in spaces of polynomials, *Positivity*, **12** # 4, November 2008, 691–709.
- [48] (joint with B. Farkas, V. Harangi and T. Keleti), Invariant decomposition of functions with respect to commuting invertible transformations, *Proc. Amer. Math. Soc.* **136**, No 4, April 2008, 1325-1336.
- [49] (joint with A. San Antolín), Equivalence of A -Approximate Continuity for Self-Adjoint Expansive Linear Maps, *Lin. Alg. Appl.*, **429**, Issue 7, 1 October 2008, 1504-1521.
- [50] (joint with D. Burns, N. Levenberg, S. Ma'u), Monge–Ampère measures for convex bodies and Bernstein–Markov type inequalities, *Trans. Amer. Math. Soc.*, to appear.
- [51] (joint with Ph. Jamming, M. Matolcsi), On the extremal rays of the cone of positive, positive definite functions, *J. Fourier Anal. Appl.*, to appear.
- [52] (joint with Aline Bonami), Integral concentration of idempotent trigonometric polynomials with gaps, *Amer. J. Math.*, **131** (2009), 1065-1108.
- [53] (joint with G. A. Munoz, J. B. Seoane), Geometry of homogeneous polynomials on non symmetric convex bodies, *Math. Scand.*, **104** (2008), 1-14, to appear.

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- [54] On a theorem of Phragmen, *Proceedings of the 3rd International Conference on Complex Analysis, Varna, Bulgaria, '85*, (eds. L. Iliev, I. Ramadanov, T. Tonev) Publishing House of the Bulgarian Acad. Sci., 1986, 556-568. MR 88m:11074.
- [55] Exact inhomogeneous Bernstein inequalities, *Approximation Theory VI, Proceedings of the Sixth International Symposium on Approximation Theory, Texas A. & M. University, College Station, Texas, '89*, (eds. C. K. Chui, L. L. Schumaker, J. D. Ward), Academic Press, 1989, 557-560. MR 91k:41026.
- [56] Extremal problems and a duality phenomenon, *Approximation, Optimization and Computing*, (ed. A. G. Law & C. L. Wang), Elsevier Sci. Publ. B. V. (North Holland), 1990, 279-281. MR 93k:42002.
- [57] (joint with A. Bonami), *Concentration of the integral norm of idempotents*. In: Fractals and related fields, Proceedings of the Conference in Honor of Jacques Peyrière, 2009. 23 pages, to appear; <http://uk.arxiv.org/PS.cache/arxiv/pdf/0811/0811.4576v1.pdf>.

Theses Papers

- [58] *Oscillatorial properties of real- and complex-valued functions having a Laplace transform of a certain type* (in Hungarian), doctoral thesis, L. Eötvös University, Budapest, 1984, 76 pages.
- [59] *Extremal problems for polynomials* (in Hungarian), thesis for the “candidate degree”, Budapest, 1988, 119 pages.
- [60] *Interest rate risk and its coverage* (in Hungarian), thesis for the M.B.A. degree, Budapest University of Economical Sciences, Budapest, 1994, 65 pages.
- [61] *Extremal problems for positive definite functions and polynomials*, dissertation for the “Doctor of the Academy” degree, Hungarian Academy of Sciences, Budapest, 2009.

Other Publications

- [62] (joint with M. Laczkovich) Periodic decompositions of functions, *Real Analysis Exchange* **13/1** (1987–88), 126-129 & 107-108.
- [63] The risk of interest rate changes and its hedge (in Hungarian), *Vezetéstudomány (Management Science)*, **XXVI** No 7 (1995), 33-38.
- [64] Megemlékezés Erőd Jánosról, *Matematikai Lapok* 2008/1, 1-8 (in Hungarian).
- [65] In memoriam János Erőd, *History of Approximation Theory*, <http://pages.cs.wisc.edu/~deboor/HAT/erod.pdf>.
- [66] *A discrete extension of the Blaschke Rolling Ball Theorem*, preprint, 2009, see on ArXive as [arXiv:0903.4815](https://arxiv.org/abs/0903.4815), 21 pages.
- [67] *On uniform asymptotic upper density in locally compact abelian groups*, preprint, 2009, see on ArXive as [arXiv:0904.1567](https://arxiv.org/abs/0904.1567), 13 pages.
- [68] *Turán’s extremal problem on locally compact abelian groups*, preprint, 2009, see on ArXive as [arXiv:0904.1824](https://arxiv.org/abs/0904.1824), 26 pages.