

PUBLICATION LIST OF ISTVÁN BERKES

1. A remark to the law of the iterated logarithm. *Studia Sci. Math. Hung.* 7 (1972) 189-197.
2. Functional limit theorems for lacunary trigonometric and Walsh series. *Studia Sci. Math. Hung.* 8 (1973) 411-423.
3. On Strassen's version of the loglog law for multiplicative systems. *Studia Sci. Math. Hung.* 8 (1973) 425-431.
4. The functional law of the iterated logarithm for dependent random variables. *Zeitschrift f. Wahrscheinlichkeitstheorie* 26 (1973) 245-258.
5. Approximation of lacunary Walsh series with Brownian motion. *Studia Sci. Math. Hung.* 9 (1974) 111-122.
6. The law of the iterated logarithm for subsequences of random variables. *Zeitschrift f. Wahrscheinlichkeitstheorie* 30 (1974) 209-215.
7. On the asymptotic behaviour of $\sum f(n_k x)$. *Proc. Colloq. Math. Soc. Bolyai on Limit Theorems, Keszthely*, pp. 23-46. North-Holland, 1975.
8. An almost sure invariance principle for lacunary trigonometric series. *Acta Math. Acad. Sci. Hung.* 26 (1975) 209-220.
9. On the asymptotic behaviour of $\sum f(n_k x)$. I. Main theorems. *Zeitschrift f. Wahrscheinlichkeitstheorie* 34 (1976) 319-345.
10. On the asymptotic behaviour of $\sum f(n_k x)$. II. Applications. *Zeitschrift f. Wahrscheinlichkeitstheorie* 34 (1976) 347-365.
11. An almost sure invariance principle for the empirical distribution function of mixing random variables. *Zeitschrift f. Wahrscheinlichkeitstheorie* 41 (1977) 115-137 (with W. Philipp).
12. On the central limit theorem for lacunary trigonometric series. *Analysis Math.* 4 (1978) 159-180.
13. Approximation theorems for independent and weakly dependent random vectors. *Ann. of Probability* 7 (1979) 29-54 (with W. Philipp).
14. A new method to prove limit theorems for mixing r.v.'s and its applications. *Trans. Eighth Prague Conf. on Inf. Theory, Statist. Dec. Functions, Random Proc. Academia, Prague, 1979, Vol. C*, pp. 39-46 (with W. Philipp).
15. An a.s. invariance principle for lacunary series $f(n_k x)$. *Acta Math. Acad. Sci. Hung.* 34 (1979) 141-155 (with W. Philipp).
16. A central limit theorem for trigonometric series with small gaps. *Zeitschrift f. Wahrscheinlichkeitstheorie* 47 (1979), 157-161.

17. A remark on Strassen's theorem. *Acta Math. Acad. Sci. Hung.* 34 (1979) 233-237.
18. Strong invariance principles for mixing random fields. *Zeitschrift f. Wahrscheinlichkeitstheorie* 57 (1981) 15-37 (with G. Morrow).
19. Gaussian approximation of mixing random fields. *Acta Math. Acad. Sci. Hung.* 43 (1984) 153-185.
20. Exchangeability and limit theorems for subsequences of r.v.'s. *Coll. Math. Soc. J. Bolyai* 36. *Limit theorems in Probability and Statistics*. North-Holland 1984, 109-151.
21. On the subsequence principle. *Longhorn Notes*, The University of Texas at Austin (1984-85) 157-175.
22. Almost exchangeable sequences of random variables. *Zeitschrift f. Wahrscheinlichkeitstheorie* 70 (1985) 473-507 (with H. P. Rosenthal).
23. A strong approximation theorem for sums of random vectors in the domain of attraction to a stable law. *Acta Math. Hung.* 48 (1986) 161-172 (with A. Dabrowski, H. Dehling and W. Philipp).
24. Exchangeable r.v.'s and the subsequence principle. *Probability Theory and Rel. Fields* 73 (1986) 395-413 (with E. Péter).
25. On almost i.i.d. subsequences of the trigonometric system. *Proc. Funct. Anal. Seminar*, University of Texas at Austin, *Lecture Notes in Math.* 1332, pp. 54-63 (1987).
26. Almost sure and weak invariance principles for random variables attracted by a stable law. *Probability Theory Rel. Fields* 83 (1989) 331-353 (with H. Dehling).
27. On almost symmetric sequences in L_p . *Acta Math. Hung.* 54 (1989) 269-278.
28. An extension of the Komlós subsequence theorem. *Acta Math. Hung.* 55 (1990) 103-110.
29. Probability theory of the trigonometric system. *Colloquia Math. Soc. J. Bolyai* 57, *Limit Theorems in Probability and Statistics*, Pécs, pp. 35-58. North Holland, 1990.
30. Irregular LIL behavior of lacunary trigonometric series. *Period. Math. Hung.* 21 (1990) 273-279.
31. A note on lacunary trigonometric series. *Acta Math. Hung.* 57 (1991) 181-186.
32. Nongaussian limit distributions of lacunary trigonometric series. *Canad. J. Math.* 43 (1991) 948-959.

33. Counterexamples related to the a.s. central limit theorem (with H. Dehling and T. F. Móri), *Studia Sci. Math. Hung.* 26 (1991) 153-164.
34. Some limit theorems in log density (with H. Dehling), *Annals of Probability* 21 (1993) 1640-1670.
35. Critical LIL behavior of the trigonometric system. *Trans. Amer. Math. Soc.* 338 (1993) 553-585.
36. Probability limit theorems related to the a.s. central limit theorem. *Proc. of Workshop on Change-point Analysis and Empirical Reliability*, Technical Report Series of the Laboratory for Research in Statistics and Probability, Carleton University, Ottawa, No. 224, 1993.
37. On the almost sure central limit theorem for random variables with infinite variance (with H. Dehling), *J. Theoretical Probability* 7 (1994) 667-680.
38. The size of trigonometric and Walsh series and uniform distribution mod 1 (with W. Philipp), *J. Lond. Math. Soc.* 50 (1994) 454-464.
39. An optimal condition for the LIL for trigonometric series. *Trans. Amer. Math. Soc.* 347 (1995) 515-530.
40. Lacunary series and conditional independence. *Acta Math. Hung.* 67 (1995) 253-259.
41. On the a.s. central limit theorem and domains of attraction. *Prob. Theory Rel. Fields* 102 (1995) 1-18.
42. Trigonometric series and uniform distribution mod 1 (with W. Philipp), *Studia Sci. Math. Hung.* 31 (1996) 15-25.
43. On the pointwise central limit theorem and mixtures of normal distributions (with E. Csáki), *Stat. Probab. Letters* 29 (1996) 361-368.
44. Between local and global logarithmic averages (with L. Horváth), *Stat. Probab. Letters* 30 (1996) 369-378.
45. Almost sure invariance principles for logarithmic averages (with L. Horváth). *Studia Sci. Math. Hung.* 33 (1997) 1-24.
46. On the convergence of $\sum c_n f(nx)$ and the Lip 1/2 class, *Trans. Amer. Math. Soc.* 349 (1997) 4143-4158.
47. Almost sure central limit theorems under minimal conditions (with E. Csáki and L. Horváth), *Stat. Prob. Letters* 37 (1998) 67-76.
48. Limit theorems for logarithmic averages of random vectors (with L. Horváth). *Math. Nachr.* 195 (1998) 5-16.
49. Limit theorems for ϕ -mixing sequences without rate assumptions (with W. Philipp), *Ann. Probab.* 26 (1998) 805-831.

50. A limit theorem for lacunary series $\sum f(n_k x)$ (with W. Philipp), *Studia Sci. Math. Hung.* 34 (1998) 1–13.
51. Results and problems related to the pointwise central limit theorem. In: *Asymptotic results in probability and statistics* (a volume in honour of Mikós Csörgő), B. Szyszkowicz, (editor), 59–96. Elsevier, Amsterdam 1998.
52. Logarithmic averages of stable random variables are asymptotically normal (with L. Horváth and D. Khoshnevisan), *Stoch. Proc. Appl.* 77 (1998) 35–51.
53. Limit theorems for logarithmic averages of fractional Brownian motion (with L. Horváth), *J. Theor. Probability* 12 (1999), 985–1009.
54. Almost sure limit theorems for the St. Petersburg game (with E. Csáki and S. Csörgő), *Stat. Prob. Letters* 45 (1999), 23–30.
55. Strong laws for L_p norms of empirical and related processes (with L. Horváth, Q. M. Shao and J. Steinebach). *Periodica Math. Hung.* 41 (2000), 35–69.
56. The logarithmic average of sample extremes is asymptotically normal (with L. Horváth). *Stoch. Proc. Appl.* 91 (2001), 77–98.
57. A universal result in almost sure central limit theory (with E. Csáki). *Stoch. Proc. Appl.* 94 (2001), 105–134.
58. Central limit theorems for logarithmic averages (with X. Chen and L. Horváth). *Studia Sci. Math. Hung.* 38 (2001), 79–96.
59. Pair correlation and U-statistics for independent and weakly dependent random variables (with W. Philipp and R. Tichy). *Illinois J. Math.* 45 (2001), 559–580.
60. The law of large numbers with exceptional sets. *Stat. Probab. Letters* 55 (2001), 431–438.
61. Strong approximation of the empirical process of GARCH sequences (with L. Horváth). *Annals of Appl. Prob.* 11 (2001), 789–809.
62. Almost sure limit theorems for sums and maxima from the domain of geometric partial attraction of semistable laws (with E. Csáki, S. Csörgő and Z. Megyesi). In: *Limit Theorems in Probability and Statistics, Vol I.*, I. Berkes, E. Csáki, M. Csörgő, eds., J. Bolyai Math. Society, Budapest, 2002, pp. 133–157.
63. Empirical processes of residuals (with L. Horváth). In: *Empirical Process Techniques for Dependent Data* (H. Dehling, T. Mikosch and M. Sorensen, Eds.) Birkhäuser, Basel, 2002, 195–209.

64. The rate of consistency of the quasi-maximum likelihood estimator (with L. Horváth) *Stat. Probab. Letters* 61 (2002), 133-143.
65. GARCH processes: structure and estimation (with L. Horváth and P. Kokoszka). *Bernoulli* 9 (2003), 201–227.
66. Asymptotic results for long memory LARCH sequences (with L. Horváth). *Ann. Appl. Probab.* 13 (2003), 641–668.
67. Limit results for the empirical process of squared residuals in GARCH models (with L. Horváth) *Stoch. Proc. Appl.* 105 (2003), 271–298.
68. Estimation of the moment index of a GARCH (1,1) sequence (with L. Horváth and P. Kokoszka). *Econometric Theory* 19 (2003), 565–586.
69. Asymptotics for GARCH squared residual correlations (with L. Horváth and P. Kokoszka). *Econometric Theory* 19 (2003), 515–540.
70. Approximations for the maximum of stochastic processes with drift (with L. Horváth). *Kybernetika* 39 (2003), 299-306.
71. A weighted goodness-of-fit test for GARCH(1,1) specification (with L. Horváth and P. Kokoszka) *Lithuanian Math. Journal* 44 (2004), 3–22.
72. The efficiency of estimators of parameters in GARCH processes (with L. Horváth) *Ann. Statist.* 43 (2004), 633-655.
73. Application of permutations to the simulations of critical values (with L. Horváth, M. Husková and J. Steinebach) *J. Nonparametric. Stat.* 16 (2004), 197–216.
74. Probabilistic and statistical properties of GARCH processes (with L. Horváth and P. Kokoszka) *Asymptotic Results in Stochastics* (L. Horváth and B. Szyszkowicz, eds.) *Fields Institute Communications* Vol. 44, 409–429 (2004).
75. Sequential change-point detection in GARCH(p, q) models (with E. Gombay, L. Horváth and P. Kokoszka) *Econometric Theory* 20 (2004), 1140–1167.
76. Testing for parameter constancy in GARCH(p, q) models (with L. Horváth and P. Kokoszka). *Stat. Probab. Letters* 70 (2004) 263–273.
77. Upper and lower class tests along subsequences (with M. Weber) *Stoch. Proc. Appl.* 115 (2005), 679–700.
78. Near integrated GARCH sequences (with L. Horváth and P. Kokoszka). *Annals of Applied Probability* 15 (2005), 890–913.
79. Almost sure convergence of the Bartlett estimator (with L. Horváth, P. Kokoszka and Q.M. Shao). *Periodica Math. Hung.* 51 (2005), 11-25.

80. Almost sure versions of the Darling-Erdős theorem (with M. Weber). *Stat. Probab. Letters* 76 (2006), 280–290.
81. Convergence of integral functionals of stochastic processes (with L. Horváth). *Econometric Theory* 22 (2006), 304–322.
82. Strong approximation for the sums of squares of augmented GARCH sequences (with A. Aue and L. Horváth). *Bernoulli* 12 (2006), 583–608.
83. Moment convergence and the law of the iterated logarithm for additive functions (with M. Weber). *Acta Arithmetica* 123 (2006), 43–55.
84. Empirical processes in probabilistic number theory: the LIL for the discrepancy of $(n_k\omega) \bmod 1$ (with W. Philipp and R. Tichy). *Illinois J. Math.* 50 (2006), 107–145.
85. On discriminating between long-range dependence and changes in mean (with L. Horváth, P. Kokoszka and Q. M. Shao). *Annals of Statistics* 34 (2006), 1140–1165.
86. On the law of the iterated logarithm for arithmetic functions (with M. Weber). *Proc. Amer. Math. Soc.* 135 (2007), 1223–1232.
87. Metric discrepancy results for sequences $\{n_k x\}$ and diophantine equations (with W. Philipp and R. Tichy). *Festschrift for W. Schmidt*, to appear.
88. On complete convergence of triangular arrays of independent random variables (with M. Weber). *Stat. Probab. Letters*, to appear.
89. On the convergence of $\sum c_k f(n_k x)$ (with M. Weber). *Memoirs of the AMS*, to appear.
90. Pseudorandom numbers and entropy conditions (with W. Philipp and R. Tichy). *J. of Complexity*, to appear.
91. Selection from a stable box (with A. Aue and L. Horváth). *Bernoulli*, to appear.
92. A note on the existence of solutions of stochastic recurrence equations (with A. Aue and L. Horváth). *Acta Sci. Szeged*, to appear.
93. The functional central limit theorem for a family of GARCH observations with applications (with S. Hörmann and L. Horváth). *Stat. Probab. Letters*, submitted.
94. Entropy conditions for subsequences of random variables with applications to empirical processes (with W. Philipp and R. Tichy). *Monatshefte Math.*, submitted.
95. Estimation in random coefficient autoregressive models (with L. Horváth and S. Lin). *Journal of Time Series Analysis*, submitted.