

Publications of Alexander Iksanov

As of February 17, 2025

Books:

IKSANOV, A. (2007). Perpetuities, branching random walk and self-decomposability (in Ukrainian): KTI-PRINT: Kiev, 192 p.

IKSANOV, A. (2016). Renewal theory for perturbed random walks and similar processes. Birkhäuser, 260 p.

IKSANOV, A., MARYNYCH, A., PILIPENKO, A. AND SAMOILENKO, I. (2025). Locally perturbed random walks. Springer/Birkhäuser, to appear in April 2025.

Lecture notes:

IKSANOV, A. (2002). Statistics of shot noise processes with exponential response function (in Ukrainian): Kyiv University Press, 61 p.

IKSANOV, A. (2003). Nonnegative infinitely divisible distributions (in Ukrainian): Electronic lecture notes, 60 p.

TYUPTYA, V. I., SHEVCHENKO, V. I. AND IKSANOV, A. M. (2003). Tutorial on linear programming (in Ukrainian): Electronic lecture notes, 101 p.

IKSANOV, A., TYUPTYA, V. AND SHEVCHENKO, V. (2004). Theory of characteristic functions (in Ukrainian): Kyiv University Press, 46 p.

IKSANOV, A., TROHYMCHUK, R. M. AND SHEVCHENKO, V. P. (2005). To matriculants: about Faculty of Cybernetics (in Ukrainian): Zirka, Kyiv, 135 p.

IKSANOV, A. M. AND SHEVCHENKO V. I. (2010). Methods of transportation theory (in Ukrainian): Kyiv University Press, 2010, 85 p.

IKSANOV, A. M. AND SHEVCHENKO V. I. (2010). Flows in networks (in Ukrainian): Kyiv University Press, 45 p.

IKSANOV, A. (2011). Discrete-time martingales: Electronic lecture notes (in Ukrainian), 88 p.

IKSANOV, A. (2013). Selected chapters of Stochastic Processes Theory: Electronic lecture notes (in Ukrainian), 127 p.

IKSANOV, A. (2012-2025). Elements of renewal theory, with applications: Electronic lecture notes, 112 p.

Theses:

IKSANOV, A. (2000). Statistical problems related to the radioactive contamination process. PhD thesis, 116 p.

IKSANOV, A. (2007). Fixed points of inhomogeneous smoothing transforms. Habilitation thesis, 284 p.

Preprints:

DONG, C., IKSANOV, A. AND PILIPENKO, A. On a discrete approximation of a skew stable Lévy process. Submitted on February 02, 2024 to *Stochastics*, 23 pages.

IKSANOV, A., KABLUCHKO, Z., MARYNYCH, A. AND WACHTEL, V. Multinomial random combinatorial structures and r -versions of Stirling, Eulerian and Lah numbers. Submitted on March 24, 2024 to *Combinatorics, Probability and Computing*, 53 pages.

IKSANOV, A. AND KOSTOHRYZ, R. Limit theorems for random Dirichlet series: boundary case. Submitted on November 04, 2024 to *Modern Stochastics: Theory and Applications*; revision submitted on January 25, 2025, 27 pages.

BRAGANETS, O. AND IKSANOV, A. On intermediate levels of nested occupancy scheme in random environment generated by stick-breaking: the case of heavy tails. Submitted on December 03, 2024 to *Probability and Mathematical Statistics*, 25 pages.

IKSANOV, A. AND KONDRATENKO, O. Limit theorems for globally perturbed random walks. Submitted on January 03, 2025 to *Stochastic Models*, 21 pages.

IKSANOV, A., KABLUCHKO, Z. AND MARYNYCH, A. Almost periodic stochastic processes, with applications to analytic number theory. Submitted on February 08, 2025 to *Theory of Probability and Mathematical Statistics*, 24 pages.

Refereed articles:

ALSMEYER, G., IKSANOV, A. AND KABLUCHKO, Z. (2025). On decoupled standard random walks. *Journal of Theoretical Probability*. **38**, article no. 23.

BURACZEWSKI, D., IKSANOV, A. AND KOTELNIKOVA, V. (2025). Laws of the iterated and single logarithm for sums of independent indicators, with applications to the Ginibre point process and Karlin's occupancy scheme. *Stochastic Processes and their Applications*. **183**, 104597.

BURACZEWSKI, D., IKSANOV, A. AND MARYNYCH, A. (2025). Convolution powers of unbounded measures on the positive half-line. *Journal of Mathematical Analysis and Applications*. **546**, no. 2, 129232.

IKSANOV, A. (2025). The harmonic descent chain and regenerative composition structures. *Electronic Communications in Probability*. **30**, article no. 11, 3 pp.

IKSANOV, A., KABLUCHKO, Z. AND KOTELNIKOVA, V. (2025). A law of the iterated logarithm for iterated random walks, with application to random recursive trees. *ALEA Latin American Journal of Probability and Mathematical Statistics*. **22**, 169–181.

IKSANOV, A. AND JEDIDI, W. (2024). A law of the iterated logarithm for the number of blocks in regenerative compositions generated by gamma-like subordinators. *Electronic Communications in Probability*. **29**, article no. 74, 14 pp.

DONG, C., IKSANOV, A. AND PILIPENKO, A. (2024). On multidimensional locally perturbed standard random walks. *Lithuanian Mathematical Journal*. **64**, no. 3, 287–301.

IKSANOV, A. AND V. WACHTEL (2024). Precise tail behavior of some Dirichlet series. *Journal of Theoretical Probability*. **37**, 2704–2737.

IKSANOV, A. KOLESKO, K. AND MEINERS, M. (2024). Asymptotic fluctuations in supercritical Crump-Mode-Jagers processes, *Annals of Probability*. **52**, no. 4, 1538–1606.

IKSANOV, A. AND KOTELNIKOVA, V. (2024). A law of the iterated logarithm for small counts in Karlin's occupancy scheme, *Modern Stochastics: Theory and Applications*. **11**, no. 2, 217–245.

IKSANOV, A., RASHYTOV, B. AND SAMOILENKO, I. (2023). Renewal theory for iterated perturbed random walks on a general branching process tree: early generations. *Journal of Applied Probability*. **60**, no.1, 45–67.

ALSMEYER, G. AND IKSANOV, A. (2023). Recurrence and transience of random difference equations in the critical case. *Annales de l'Institut Henri*

- Poincaré, Probabilités et Statistiques.* **59**, 606–620.
- BURACZEWSKI, D., DONG, C., IKSANOV, A. AND MARYNYCH, A. (2023). Limit theorems for random Dirichlet series. *Stochastic Processes and their Applications.* **165**, 246–274.
- IKSANOV, A., PILIPENKO, A. AND POVAR, B. (2023). Functional limit theorems for random walks perturbed by positive alpha-stable jumps. *Bernoulli.* **29**, no. 2, 1638–1662.
- IKSANOV, A., MARYNYCH, A. AND NIKITIN, A. (2023). Limit theorems for discounted convergent perpetuities II. *Electronic Journal of Probability.* **28**, article no. 15, 1–22.
- IKSANOV, A. AND PILIPENKO, A. (2023). On a skew stable Lévy process. *Stochastic Processes and their Applications.* **156**, 44–68.
- BRAGANETS, O. AND IKSANOV, A. (2023). A limit theorem for a nested infinite occupancy scheme in random environment. *Austrian Journal of Statistics.* **52**, 1–12.
- BURACZEWSKI, D., DONG, C., IKSANOV, A. AND MARYNYCH, A. (2023). Critical branching processes in a sparse random environment. *Modern Stochastics: Theory and Applications.* **10**, no. 4, 397–411.
- IKSANOV, A., KABLUCHKO, Z. AND KOTELNIKOVA, V. (2022). A functional limit theorem for nested Karlin’s occupancy scheme generated by discrete Weibull-like distributions. *Journal of Mathematical Analysis and Applications.* **507**, no.2, 125798.
- BURACZEWSKI, D., IKSANOV, A. AND A. MARYNYCH. (2022). Central limit theorem for the least common multiple of a uniformly sampled m -tuple of integers. *Journal of Number Theory.* **233**, 301–336.
- IKSANOV, A. AND MALLEIN, B. (2022). Late levels of nested occupancy scheme in random environment. *Stochastic Models.* **38**, no.1, 130–166.
- BOHUN, V., IKSANOV, A., MARYNYCH, A. AND RASHYTOV, B. (2022). Renewal theory for iterated perturbed random walks on a general branching process tree: intermediate generations. *Journal of Applied Probability.* **59**, no. 2, 421–446.
- IKSANOV, A., Marynych, A. and Samoilenko, I. (2022). On intermediate levels of nested occupancy scheme in random environment generated by stick-breaking II. *Stochastics.* **94**, 1077–1101.
- IKSANOV, A., MARYNYCH, A. AND RASCHEL, K. (2022). Asymptotics of arithmetic functions of GCD and LCM of random integers in hyperbolic regions. *Results in Mathematics.* **77**, no. 4, article 165, 22 p.

- IKSANOV, A., MARYNYCH, A. AND RASHYTOV, B. (2022). Stable fluctuations of iterated perturbed random walks in intermediate generations of a general branching process tree. *Lithuanian Mathematical Journal*. **62**, 447–466.
- IKSANOV, A. AND KOTELNIKOVA, V. (2022). Small counts in nested Karlin’s occupancy scheme generated by discrete Weibull-like distributions. *Stochastic Processes and their Applications*. **153**, 283–320.
- BURACZEWSKI, D., IKSANOV, A. AND MALLEIN, B. (2021). On the derivative martingale in a branching random walk. *Annals of Probability*. **49**, no. 3, 1164–1204.
- IKSANOV, A. AND KONDRATENKO, O. (2021). Functional limit theorems for discounted exponential functional of random walk and discounted convergent perpetuity. *Statistics and Probability Letters*. **176**, 109148.
- IKSANOV, A. AND RASHYTOV, B. (2021). A functional limit theorem without centering for general shot-noise processes. *Ukrainian Mathematical Journal*. **73**, no. 2, 181–202.
- IKSANOV, A., NIKITIN, A. AND SAMOILENKO, I. (2021). Limit theorems for discounted convergent perpetuities. *Electronic Journal of Probability*. **26**, article no. 131, 1–25.
- IKSANOV, A., KOLESKO, K. AND MEINERS, M. (2021). Gaussian fluctuations and a law of the iterated logarithm for Nerman’s martingale in the supercritical general branching process. *Electronic Journal of Probability*. **26**, paper no. 160, 1–22.
- GNEDIN, A. AND IKSANOV, A. (2020). On nested infinite occupancy scheme in random environment. *Probability Theory and Related Fields*. **177**, no.3-4, 855–890.
- IKSANOV, A., KOLESKO, K., MEINERS, M. (2020). Fluctuations of Biggins’ martingales at complex parameters. *Annales de l’Institut Henri Poincaré, Probabilités et Statistiques*. **56**, no. 4, 2445–2479.
- BURACZEWSKI, D., DOVGAY, B., IKSANOV, A. (2020). On intermediate levels of nested occupancy scheme in random environment generated by stick-breaking I. *Electronic Journal of Probability*. **25**, paper no. 123, 1–24.
- BURACZEWSKI, D., DYSZEWSKI, P., IKSANOV, A. AND MARYNYCH, A. (2020). Random walks in a strongly sparse random environment. *Stochastic Processes and their Applications*. **130**, no.7, 3990–4027.
- DONG, C. AND IKSANOV, A. (2020). Weak convergence of random processes with immigration at random times. *Journal of Applied Probability*. **57**, no.1, 250–265.

- IKSANOV, A. AND RASHYTOV, B. (2020). A functional limit theorem for general shot noise processes. *Journal of Applied Probability*. **57**, no.1, 280–294.
- IKSANOV, A., LIU, Q. AND LIANG, X. (2019). On L^p -convergence of the Biggins martingale with complex parameter. *Journal of Mathematical Analysis and Applications*. **479**, 1653–1669.
- IKSANOV, A., KOLESKO, K. AND MEINERS, M. (2019). Stable-like fluctuations of Biggins’ martingales. *Stochastic Processes and their Applications*. **129**, no. 11, 4480–4499.
- BURACZEWSKI, D., DYSZEWSKI, P., IKSANOV, A., MARYNYCH, A. AND ROITERSHTEIN, A. (2019). Random walks in a moderately sparse random environment. *Electronic Journal of Probability*. **24**, paper no. 69, 44 pp.
- IKSANOV, A. AND MALLEIN, B. (2019). A result on power moments of Levy-type perpetuities and its application to the L_p -convergence of Biggins’ martingales in branching Lévy processes. *ALEA Latin American Journal of Probability and Mathematical Statistics*. **16**, 315–331.
- GNEDIN, A., IKSANOV, A., MARYNYCH, A. AND MÖHLE, M. (2018). The collision spectrum of Lambda-coalescents. *Annals of Applied Probability*. **28**, no. 6, 3857–3883.
- IKSANOV, A., JEDIDI, W. AND BOUZEFFOUR, F. (2018). Functional limit theorems for the number of busy servers in a $G/G/\infty$ queue. *Journal of Applied Probability*. **55**, no. 1, 15–29.
- BURACZEWSKI, D., DYSZEWSKI, P., IKSANOV, A. AND MARYNYCH, A. On perpetuities with gamma-like tails. *Journal of Applied Probability*. **55**, no. 2, 386–389.
- IKSANOV, A. AND KABLUCHKO, Z. (2018). Functional limit theorems for Galton-Watson processes with very active immigration. *Stochastic Processes and their Applications*. **128**, no. 1, 291–305.
- IKSANOV, A. AND KABLUCHKO, Z. (2018). A functional limit theorem for the profile of random recursive trees. *Electronic Communications in Probability*. **23**, paper no. 87, 1–13.
- IKSANOV, A. AND KABLUCHKO, Z. (2018). Weak convergence of the number of vertices at intermediate levels of random recursive trees. *Journal of Applied Probability*. **55**, no.4, 1131–1142.
- IKSANOV, A., JEDIDI, W. AND BOUZEFFOUR, F. (2017). A law of the iterated logarithm for the number of occupied boxes in the Bernoulli sieve. *Statistics and Probability Letters*. **126**, 244–252.
- IKSANOV, A., PILIPENKO, A. AND SAMOILENKO, I. (2017). Functional

- limit theorems for the maxima of perturbed random walks and divergent perpetuities in the M_1 -topology. *Extremes*. **20**, no. 3, 567–583.
- ALSMEYER, G., BURACZEWSKI, D. AND IKSANOV, A. (2017). Null-recurrence and transience of random difference equations in the contractive case. *Journal of Applied Probability*. **54**, no. 4, 1089–1110.
- IKSANOV, A., MARYNYCH, A. AND MEINERS, M. (2017). Asymptotics of random processes with immigration I: scaling limits. *Bernoulli*. **23**, no. 2, 1233–1278.
- IKSANOV, A., MARYNYCH, A. AND MEINERS, M. (2017). Asymptotics of random processes with immigration II: convergence to stationarity. *Bernoulli*. **23**, no. 2, 1279–1298.
- ALSMEYER, G., IKSANOV, A. AND MARYNYCH, A. (2017). Functional limit theorems for the number of occupied boxes in the Bernoulli sieve. *Stochastic Processes and their Applications*. **127**, no. 3, 995–1017.
- IKSANOV, A., KABLUCHKO, Z., MARYNYCH, A. AND SHEVCHENKO, G. (2017). Fractionally integrated inverse stable subordinators. *Stochastic Processes and their Applications*. **127**, no. 1, 80–106
- IKSANOV, A. AND KABLUCHKO, Z. (2016). A central limit theorem and a law of the iterated logarithm for the Biggins martingale of the supercritical branching random walk. *Journal of Applied Probability*. **53**, no. 4, 1178–1192.
- IKSANOV, A., KABLUCHKO, Z. AND MARYNYCH, A. (2016). Local universality for real roots of random trigonometric polynomials. *Electronic Journal of Probability*. **21**, paper no. 63, 19 pp.
- IKSANOV, A., KABLUCHKO, Z. AND MARYNYCH, A. (2016). Weak convergence of renewal shot noise processes in the case of slowly varying normalization. *Statistics and Probability Letters*. **114**, 67–77.
- IKSANOV, A., MARYNYCH, A. AND MEINERS, M. (2016). Moment convergence of first-passage times in renewal theory. *Statistics and Probability Letters*. **119**, 134–143.
- IKSANOV, A. AND PILIPENKO, A. (2016). A functional limit theorem for locally perturbed random walks. *Probability and Mathematical Statistics*. **36**, no. 2, 353–368.
- IKSANOV, A. AND POLOTSKIY, S. (2016). Tail behavior of suprema of perturbed random walks. *Theory of Stochastic Processes*. **21(36)**, no. 1, 12–16.
- AURZADA, F., IKSANOV, A. AND MEINERS, M. (2015). Exponential moments of first passages times and related quantities for Lévy processes. *Math-*

- ematische Nachrichten.* **288**, 1921–1938.
- VATUTIN, V., IKSANOV, A. AND TOPCHII, V. (2015). A two-type Bellman-Harris process initiated by a large number of particles. *Acta Applicandae Mathematicae.* **138**, 279–312.
- ALSMEYER G., IKSANOV, A. AND MEINERS, M. (2015). Power and exponential moments of the number of visits and related quantities for perturbed random walks. *Journal of Theoretical Probability.* **28**, no. 1, 1–40.
- IKSANOV, A. AND MEINERS, M. (2015). Rate of convergence in the law of large numbers for supercritical general multi-type branching processes. *Stochastic Processes and their Applications.* **125**, no. 2, 708–738.
- BURACZEWSKI, D. AND IKSANOV, A. (2015). Functional limit theorems for divergent perpetuities in the contractive case. *Electronic Communications in Probability.* **20**, article 10, 1–14.
- IKSANOV, A., MARYNYCH, A. AND VATUTIN, V. (2015). Weak convergence of finite-dimensional distributions of the number of empty boxes in the Bernoulli sieve. *Theory of Probability and its Applications.* **59**, 87–113.
- IKSANOV, A. AND MEINERS, M. (2015). Fixed points of multivariate smoothing transforms with scalar weights. *ALEA.* **12**, 69–114.
- TOPCHII, V. A., VATUTIN, V. A. AND IKSANOV, A. M. (2015). Evolution of a two-type Bellman-Harris process generated by a large number of particles. *PLISKA Studia Mathematica.* **24**, 89–98.
- IKSANOV, A. AND PILIPENKO, A. (2014). On the maximum of a perturbed random walk. *Statistics and Probability Letters.* **92**, 168–172.
- GNEDIN, A., IKSANOV, A., MARYNYCH, A. AND MOEHLE, M. (2014). On asymptotics of the beta-coalescents. *Advances in Applied Probability.* **46**, no. 2, 496–515.
- IKSANOV, A., MARYNYCH, A. AND MEINERS, M. (2014). Limit theorems for renewal shot noise processes with eventually decreasing response functions. *Stochastic Processes and their Applications.* **124**, 2132–2170.
- GNEDIN, A., IKSANOV, A. AND MARYNYCH, A. (2014). Lambda-coalescents: a survey. *Journal of Applied Probability.* Special Volume **51A**, 23–40.
- IKSANOV, A. (2013). On the number of empty boxes in the Bernoulli sieve I. *Stochastics.* **85**, 946–959.
- IKSANOV, A. (2013). Functional limit theorems for renewal shot noise processes with increasing response functions. *Stochastic Processes and their Applications.* **123**, 1987–2010.
- IKSANOV, A. (2012). On the number of empty boxes in the Bernoulli sieve II. *Stochastic Processes and their Applications.* **122**, 2701–2729.

- GNEDIN, A. AND IKSANOV, A. (2012). Regenerative compositions in the case of slow variation: A renewal theory approach. *Electronic Journal of Probability*. **17**, article 77, 1–19.
- GNEDIN, A., IKSANOV, A. AND MARYNYCH, A. (2012). A generalization of the Erdős-Turán law for the order of random permutation. *Combinatorics, Probability and Computing*. **21**, 715–733.
- GNEDIN, A. AND IKSANOV, A. (2011). Lambda-coalescents with dust component. *Journal of Applied Probability*. **48**, 1133–1151.
- GNEDIN, A. AND IKSANOV, A. (2011). Moments of random sums and Robbins' problem of optimal stopping. *Journal of Applied Probability*. **48**, 1197–1199.
- GNEDIN, A., IKSANOV, A. AND MARYNYCH, A. (2010). Limit theorems for the number of occupied boxes in the Bernoulli sieve. *Theory of Stochastic Processes*. **16(32)**, 44–57.
- IKSANOV, A. AND MEINERS, M. (2010). Exponential rate of almost sure convergence of intrinsic martingales in supercritical branching random walks. *Journal of Applied Probability*. **47**, no. 2, 513–525.
- GNEDIN, A., IKSANOV, A. AND MARYNYCH, A. (2010). The Bernoulli sieve: an overview. *Discrete Mathematics and Theoretical Computer Science, Proceedings Series*, **AM**, 329–342.
- IKSANOV, A. AND MEINERS, M. (2010). Exponential moments of first passage times and related quantities for random walks. *Electronic Communications in Probability*. **15**, 365–375.
- ALSMEYER, G., IKSANOV, A., POLOTSKIY, S. AND RÖSLER, U. (2009). Exponential rate of L_p -convergence of intrinsic martingales in supercritical branching random walks. *Theory of Stochastic Processes*. **15(31)**, no. 2, 1–18.
- DRMOTA, M., IKSANOV, A., MOEHLE, M. AND ROESLER, U. (2009). A limiting distribution for the number of cuts needed to isolate the root of a random recursive tree. *Random structures and algorithms*. **34**, 319–336.
- ALSMEYER, G. AND IKSANOV, A. (2009). A log-type moment result for perpetuities and its application to martingales in supercritical branching random walks. *Electronic Journal of Probability*. **14**, 289–313.
- ALSMEYER, G., IKSANOV, A. AND RÖSLER, U. (2009). On distributional properties of perpetuities. *Journal of Theoretical Probability*. **22**, 666–682.
- GNEDIN, A., IKSANOV, A., NEGADAJLOV, P. AND RÖSLER, U. (2009). The Bernoulli sieve revisited. *Annals of Applied Probability*. **19**, 1634–1655.

- IKSANOV, A., MARYNYCH, A. AND MÖHLE, M. (2009). On the number of collisions in beta (2,b)-coalescents. *Bernoulli*. **15**, 829–845.
- GNEDIN, A., IKSANOV, A. AND MÖHLE, M. (2008). On asymptotics of exchangeable coalescents with multiple collisions. *Journal of Applied Probability*. **45**, 1186–1195.
- IKSANOV, A. AND TERLETSKY, YU. (2008). On asymptotic behavior of certain recursions with random indices of linear growth. *ProbStatForum*. **1**, 62–67.
- IKSANOV, A. AND MARYNYCH, A. (2008). A note on non-regular martingales. *Statistics and Probability Letters*. **78**, 3014–3017.
- IKSANOV, A. AND MÖHLE, M. (2008). On the number of jumps of random walks with a barrier. *Advances in Applied Probability*. **40**, 206–228.
- IKSANOV, A. AND NEGADAJLOV, P. (2008). On the number of zero increments of random walks with a barrier. *Discrete Mathematics and Theoretical Computer Science*. Proceedings Series. **AI**, 247–254.
- GNEDIN, A., IKSANOV, A. AND RÖSLER, U. (2008). Small parts in the Bernoulli sieve. *Discrete Mathematics and Theoretical Computer Science*. Proceedings Series. **AI**, 239–246.
- IKSANOV, A. AND MÖHLE, M. (2007). A probabilistic proof of a weak limit law for the number of cuts needed to isolate the root of a random recursive tree. *Electronic Communications in Probability*. **12**, 28–35.
- IKSANOV, A. (2007). On the supremum of a perturbed random walk. *Bulletin of Kiev University*. **1**, 161–164.
- DRMOTA, M., IKSANOV, A., MÖHLE, M. AND RÖSLER, U. (2007). Asymptotic results about the total branch length of the Bolthausen-Sznitman coalescent. *Stochastic Processes and Applications*. **117**, 1404–1421.
- IKSANOV, A. (2007). On an integro-functional equation related to fixed points of the smoothing transforms. *Bulletin of Kiev University*. **2**, 151–154.
- IKSANOV, A. M. AND NEGADAJLOV, P. (2007). On the supremum of a martingale related to a branching random walk. *Theory of Probability and Mathematical Statistics*. **74**, 49–57.
- IKSANOV, A. M. AND POLOTSKIY, S. (2006). Regular variation in the branching random walk. *Theory of Stochastic Processes*. **12 (28)**, 38–54.
- IKSANOV, A. M. AND RÖSLER, U. (2006). Some moment results about the limit of a martingale related to the supercritical branching random walk and perpetuities. *Ukrainian Mathematical Journal*. **58**, 505–528.
- IKSANOV, A. M. (2006). On the rate of convergence of a regular martingale related to the branching random walk. *Ukrainian Mathematical Journal*. **58**,

368–387.

IKSANOV, A. M. (2006). On some moments of the limit random variable for a normalized supercritical Galton-Watson process, in the book "Focus on Probability Theory" (Velle, L. R. (ed.)), Nova Science Publishers, Inc. (New-York), 151–158.

HU, C. Y., IKSANOV, A. M., LIN, G. D. AND ZAKUSYLO, O. K. (2006). The Hurwitz zeta distribution. *Australian and New Zealand Journal of Statistics*. **48**, 1–6.

IKSANOV, A. M. AND KIM, C. S. (2004). On a Pitman-Yor problem. *Statistics and Probability Letters*. **68**, 61–72.

IKSANOV, A. M., JUREK, Z. J. AND SCHREIBER, B. M. (2004). On a new factorization property of the self-decomposable probability distributions on Banach spaces. *Annals of Probability*. **32**, 1356–1369.

IKSANOV, A. M. (2004). A conjecture on the behavior of tails of fixed points of the shot noise transform. *Theory of Probability and Mathematical Statistics*. **69**, 55–60.

IKSANOV, A. M. AND KIM, C. S. (2004). New explicit examples of fixed points of Poisson shot noise transforms. *Australian and New Zealand Journal of Statistics*. **46**, 313–321.

IKSANOV, A. M. (2004). Elementary fixed points of the BRW smoothing transforms with infinite number of summands. *Stochastic Processes and their Applications*. **114**, 27–50.

IKSANOV, A. M. (2004). Infinite divisibility of infinite sums of lower records, a simple proof. *Journal of Applied Probability*. **41**, 1187–1190.

IKSANOV, A. M. AND JUREK, Z. J. (2003). Shot noise distributions and selfdecomposability. *Stochastic Analysis and Applications*. **21**, 593–609.

IKSANOV, A. M. (2002). Remarks concerning proofs of some results on selfdecomposability in Banach space. *Bulletin of Kiev University, ser. phys.-math. sciences*. **2**, 221–227.

IKSANOV, A. M. AND JUREK, Z. J. (2002). On fixed points of Poisson shot noise transforms. *Advances in Applied Probability*. **34**, 798–825.

IKSANOV, A. M. (2002). On perpetuities related to the size-biased distributions. *Theory of Stochastic Processes*. **8(24)**, 128–135.

IKSANOV, A. M. (2002). On positive distributions of the class L of self-decomposable laws. *Theory of Probability and Mathematical Statistics*. **64**, 51–61.

IKSANOV, A. M. (2001). Parameter estimation for the radioactive contamination process. *Studia Scientiarum Mathematicarum Hungarica*. **37**,

237–258.

IKSANOV, A. M. (2001). Estimating the mean portion of radiation. Collection of NASU scientific works "Computer mathematics. Optimization of calculations." (vol.2), Kiev, 158–163.

IKSANOV, A. M. (2000). The relative stability for maxima of observations of a shot noise process. *Theory of Probability and Mathematical Statistics*. **60**, 43–51.

IKSANOV, A. M. (1999). Two characterizations of an almost exponential distributions via order statistics (in Ukrainian), *Bulletin of Kiev University, ser. phys.-math. sciences* **1**, 214–219.

IKSANOV, A. M. (1999). Estimation for the stationary distribution of the radioactive contamination process (in Ukrainian). *Bulletin of Kiev University, ser. phys.-math. sciences*. **2**, 248–255.

IKSANOV, A. M. (1999). An exact distribution of a drift parameter estimate for the radioactive contamination process (in Ukrainian). *Bulletin of Kiev University, ser. phys.-math. sciences*. **3**, 213–220.

IKSANOV, A. M. (1998). Parameter estimation for the radioactive contamination process when distances between observations are geometrically distributed (in Ukrainian). *Bulletin of Kiev University, ser. phys.-math. sciences*. **2**, 209–213.

IKSANOV, A. M. (1998). On estimation of distribution function of a jump for the radioactive contamination process (in Ukrainian). *Bulletin of Kiev University, ser. phys.-math. sciences*. **3**, 189–193.

IKSANOV, A. M. (1998). Parameter estimation for the radioactive contamination process based on Markovian observations (in Ukrainian). *Bulletin of Kiev University, ser. phys.-math. sciences*. **4**, 145–148.