

## Lista publikacji w 2021 roku

1. **Bendikov Alexander, Grigor'yan Alexander, Hu Eryan, Hu Jiaxin**  
Heat kernels and non-local Dirichlet forms on ultrametric spaces  
Ann. Scuola Norm. Super. Pisa-Cl. Sci., 2021, **22**, 399-461.  
IF = 1.041
  
2. **Bendikov Alexander, Grigor'yan Alexander, Molchanov Stanislav**  
Hierarchical Schrödinger type operators: the case of locally bounded potentials  
in: Operator theory and harmonic analysis, OTHA 2020, Part II : Probability-analytical models, methods and applications / red.Alexey N. Karapetyants, Igor V. Pavlov, Albert N. Shiryaev  
Springer, Cham, 2021, 43-89.
  
3. **Biler Piotr, Karch Grzegorz, Laurencot Philippe, Boritchev Alexandre**  
Concentration phenomena in a diffusive aggregation model  
J. Differ. Equ, 2021, **271**, 1092-1108.  
IF = 2.615
  
4. **Bisewski Krzysztof, Dębicki Krzysztof, Mandjes Michel**  
Bounds for expected supremum of fractional Brownian motion with drift  
J. Appl. Probab., 2021, **58**, 411-427.  
IF = 1.116
  
5. **Bogdan Małgorzata**  
Predicting the redshift of  $\gamma$ -ray-loud AGNs using supervised machine learning  
Astrophys. J., 2021, **920**, 1-20.  
IF = 5.521
  
6. **Bors Dorota, Stańczy Robert**  
Models of particles of the Michie-King type

Commun. Math. Phys., 2021, **382**, 1243-1262.

IF = 2.361

7. **Bors Dorota, Stańczy Robert**

Existence and multiplicity results for Dirichlet problem with fractional Laplacian and nonlinearity

Journal of Fixed Point Theory and Applications, 2021, **23**, 1-16.

IF = 2

8. **Bourgain Jean, Mirek Mariusz, Stein Elias, Wróbel Błażej**

On the Hardy-Littlewood maximal functions in high dimensions: continuous and discrete perspective

in: Geometric aspects of harmonic analysis / red. Paolo Ciatti, Alessio Martini

Springer, Cham, 2021, 107-148.

9. **Brzyski Damian, Karas Marta, Ances Beau M., Dzemiżc Mario, Goñi Joaquín, Randolph Timothy W., Hareżlak Jarosław**

Connectivity-informed adaptive regularization for generalized outcomes

Can. J. Stat., 2021, **49**, 203-227.

IF = 0.758

10. **Buraczewski Dariusz, Dovgay Bohdan, Marynych Alexander**

Moderate parts in regenerative compositions: the case of regular variation

J. Math. Anal. Appl., 2021, **497**, 1-20.

IF = 1.417

11. **Buraczewski Dariusz, Iksanov Oleksandr, Mallein Bastien**

On the derivative martingale in a branching random walk

Annals of Probability, 2021, **49**, 1164-1204.

IF = 2.288

12. **Buraczewski Dariusz, Kolesko Konrad, Meiners Matthias**  
Self-similar solutions to kinetic-type evolution equations: beyond the boundary case  
Electron. J. Probab., 2021, **26**, 1-18.  
IF = 1.134
  
13. **Cabello Sánchez Félix, Avilés Antonio, Borodulin-Nadzieja Piotr, Chodounský David, Guzmán Osvaldo**  
Splitting chains, tunnels and twisted sums  
Isr. J. Math., 2021, **241**, 955-989.  
IF = 1.089
  
14. **Calderoni Filippo, Kwiatkowska Aleksandra, Tent Katrin**  
Simplicity of the automorphism groups of order and tournament expansions of homogeneous structures  
Journal of Algebra, 2021, **580**, 43-62.  
IF = 0.908
  
15. **Casals-Ruiz Montserrat, Kazachkov Ilya, Zakharov Alexander**  
Commensurability of Baumslag-Solitar groups  
Indiana University Mathematics Journal, 2021, **70**, 2527-2555.  
IF = 1.059
  
16. **Celiński Rafał, Hilhorst Danielle, Karch Grzegorz, Mimura Masayasu, Roux Pierre**  
Mathematical treatment of PDE model of chemotactic E. coli colonies  
J. Differ. Equ, 2021, **278**, 73-99.  
IF = 2.615
  
17. **Chirvasitu Alexandru, Hajac Piotr M., Tobolski Mariusz**  
Non-surjective pullbacks of graph  $C^*$ -algebras from non-injective pushouts of graphs  
Bulletin of the London Mathematical Society, 2021, **53**, 1-15.

IF = 1.036

**18. Chirvasitu Alexandru, Passer Benjamin, Tobolski Mariusz**

Equivariant dimensions of graph  $C^*$ -algebras

J. Funct. Anal., 2021, **280**, 1-32.

IF = 1.891

**19. Cygan Szymon**

Pattern formation in nonlocal Kondo model

Math. Meth. Appl. Sci., 2021, **44**, 10804-10822.

IF = 3.007

**20. Cygan Szymon, Karch Grzegorz, Krawczyk Krzysztof, Wakui Hiroshi**

Stability of constant steady states of a chemotaxis model

J. Evol. Equ., 2021, **21**, 4873-4896.

IF = 1.261

**21. Cygan Wojciech, Sandrić Nikola, Šebek Stjepan**

Functional CLT for the range of stable random walks

Bull. Malays. Math. Sci. Soc., 2021, **44**, 1371-1386.

IF = 1.397

**22. Cygan Wojciech, Sandrić Nikola, Šebek Stjepan**

Limit theorems for a stable sausage

Stoch. Dyn., 2021, **21**, 1-34.

IF = 1.45

**23. Cygan Wojciech, Šebek Stjepan**

Transition probability estimates for subordinate random walks

Math. Nachr., 2021, **294**, 518-558.

IF = 1.199

**24. Damek Ewa, Ghardallou Zeineb**

Entire solutions to sublinear elliptic problems on harmonic NA groups and Euclidean spaces

Ann. Mat. Pura Appl., 2021, **200**, 67-80.

IF = 0.986

**25. Das Biswarup, Franz Uwe, Wang Xumin**

Invariant Markov semigroups on quantum homogeneous spaces

Journal of Noncommutative Geometry, 2021, **15**, 531-580.

IF = 0.768

**26. Dębicki Krzysztof, Hashorva Enkelejd, Krystecki Konrad**

Finite-time ruin probability for correlated Brownian motions

Scandinavian Actuarial Journal, 2021, **2021**, 890-915.

IF = 1.782

**27. Dobrowolski Jan, Kim Byunghan, Kolesnikov Alexei, Lee Junguk**

The relativized Lascar groups, type-amalgamation, and algebraicity

J. Symb. Log., 2021, **86**, 531-557.

IF = 0.634

**28. Dziubański Jacek, Hejna Agnieszka**

On semigroups generated by sums of even powers of Dunkl operators

Integr. Equ. Oper. Theory, 2021, **93**, 1-30.

IF = 0.72

**29. Dziubański Jacek, Sikora Adam**

Lie group approach to Grushin operators

Journal of Lie Theory, 2021, **31**, 1-14.

IF = 0.376

**30. Ejsmont Wiktor, Biernacki Marek**

Application of the free tangent law in quantification of household satisfaction from durable consumer goods

Entropy, 2021, **23**, 1-11.

IF = 2.738

**31. Ejsmont Wiktor, Lehner Franz**

The trace method for cotangent sums

J. Comb. Theory Ser. A, 2021, **177**, 1-32.

IF = 1.263

**32. Ejsmont Wiktor, Lehner Franz**

Sums of commutators in free probability

J. Funct. Anal., 2021, **280**, 1-29.

IF = 1.891

**33. Georgakopoulos Agelos, Kolesko Konrad**

Brownian motion on graph-like spaces

Studia Math., 2021, **261**, 121-155.

IF = 0.914

**34. Hejna Agnieszka**

Schrödinger operators with reverse Hölder class potentials in the Dunkl setting and their Hardy spaces

J. Fourier Anal. Appl., 2021, **27**, 1-42.

IF = 1.273

**35. Hejna Agnieszka**

Behavior of eigenvalues of certain Schrödinger operators in the rational Dunkl setting

Anal. Math. Phys., 2021, **11**, 1-18.

IF = 1.57

**36. Huang Jingyin, Osajda Damian**

Helly meets Garside and Artin

Invent. Math., 2021, **225**, 395–426.

IF = 3.128

**37. Iksanov Oleksandr, Kolesko Konrad, Meiners Matthias**

Gaussian fluctuations and a law of the iterated logarithm for Nerman's martingale in the supercritical general branching process

Electron. J. Probab., 2021, **26**, 1-22.

IF = 1.134

**38. Jagiella Grzegorz**

Topological dynamics and NIP fields

Ann. Pure Appl. Log., 2021, **172**, 1-15.

IF = 0.776

**39. Jasiulis-Goldyn Barbara, Cegielka Bożena**

Modeling the impact of air pollution on the respiratory system diseases

in: Proceedings 63rd ISI World Statistics Congress

International Statistical Institute, Virtual, 2021, 392-395.

**40. Jasiulis-Goldyn Barbara, Nowakowski Dominik**

Statistical approach to the impact of air pollution on the otolaryngology system diseases

in: Proceedings 63rd ISI World Statistics Congress

International Statistical Institute, Virtual, 2021, 118-121.

**41. Jurek Zbigniew**

On a limit theorem for a non-linear scaling

Stat. Probab. Lett., 2021, **177**, 1-6.

IF = 0.718

**42. Jurek Zbigniew**

On background driving distribution functions (BDDF) for some selfdecomposable variables

Matematyka Stosowana, 2021, **49**, 85-109.

IF = 0

**43. Kania-Strojec Edyta**

The atomic Hardy space for a general Bessel operator

Mon.heft. Math., 2021, **196**, 785–822.

IF = 0.901

**44. Kaplan Itay, Rzepecki Tomasz, Siniora Daoud**

On the automorphism group of the universal homogeneous meet-tree

J. Symb. Log., 2021, **86**, 1508-1540.

IF = 0.634

**45. Klusik Przemysław**

Hedging of equity-linked contract with maximal success factor

Śląski Przegląd Statystyczny, 2021, **19 (25)**, 31-39.

IF = 0

**46. Lee Junguk, Lee Wan**

On the structure of certain valued fields

Ann. Pure Appl. Log., 2021, **172**, 1-24.

IF = 0.776



**47. Martin Alexandre, Osajda Damian**

A combination theorem for combinatorially non-positively curved complexes of hyperbolic groups

Math. Proc. Camb. Philos. Soc., 2021, **170**, 445-477.

IF = 0.949

**48. Martino Armando, Tointon Matthew C. H., Valiunas Motiejus, Ventura Enric**

Probabilistic nilpotence in infinite groups

Isr. J. Math., 2021, **244**, 539-588.

IF = 1.089

**49. Matsui Muneya, Świątkowski Witold**

Tail indices for  $AX+B$  recursion with triangular matrices

J. Theor. Probab., 2021, **34**, 1831-1869.

IF = 0.733

**50. Meda Stefano, Wróbel Błażej**

Marcinkiewicz-type multipliers on products of noncompact symmetric spaces

Ann. Scuola Norm. Super. Pisa-Cl. Sci., 2021, **22**, 1747-1804.

IF = 1.041

**51. Meir Nadav**

Pseudo-finite sets, pseudo-o-minimality

J. Symb. Log., 2021, **86**, 577-599.

IF = 0.634

**52. Musiał Kazimierz**

Multimeasures with values in conjugate Banach spaces and the weak Radon-Nikodým property

Journal of Convex Analysis, 2021, **28**, 879-902.

IF = 0.622

**53. Nowak Adam, Sjögren Peter, Szarek Tomasz Zachary**

Genuinely sharp heat kernel estimates on compact rank-one symmetric spaces, for Jacobi expansions, on a ball and on a simplex

Math. Ann., 2021, **381**, 1455-1476.

IF = 1.334

**54. Osajda Damian, Przytycki Piotr, McCammond Jon**

Tits Alternative for groups acting properly on 2-dimensional recurrent complexes

Adv. Math., 2021, **391**, 1-22.

IF = 1.675

**55. Oussi Lahcen, Wysoczański Janusz**

Noncommutative analogues of the Law of Small Numbers for random variables indexed by elements of positive symmetric cones

ALEA-Latin Am. J. Probab. Math., 2021, **18**, 35-67.

IF = 0.732

**56. Paluszyński Maciej, Zienkiewicz Jacek**

A remark on atomic decompositions of martingale Hardy's spaces

Journal of Geometric Analysis, 2021, **31**, 8866-8878.

IF = 1.002

**57. Paluszyński Maciej, Zienkiewicz Jacek**

On inverses of discrete rough Hilbert transforms

Colloq. Math., 2021, **164**, 305-325.

IF = 0.631

**58. Pawłowski Adam, Topolski Krzysztof, Herden Elżbieta**

Quantitative analysis of bibliographic corpora

in: Language and text : data, models, information and applications / red.Adam Pawłowski, Jan Mačutek, Sheila Embleton, George Mikros

John Benjamins Publishing Company, Amsterdam, Holandia, 2021, 240-256.

**59. Pezda Tadeusz**

An algorithm determining the set of lengths of polynomial cycles in ZNK

Colloq. Math., 2021, **166**, 151-169.

IF = 0.631

**60. Plebanek Grzegorz**

Monolithic spaces of measures

Fundam. Math., 2021, **254**, 335-348.

IF = 0.589

**61. Plebanek Grzegorz, Alarcón Alberto Salguero**

On the three space property for  $C(K)$ -spaces

J. Funct. Anal., 2021, **281**, 1-15.

IF = 1.891

**62. Preisner Marcin, Kania-Strojec Edyta, Plewa Pawel**

Local atomic decompositions for multidimensional Hardy spaces

Rev. Mat. Complut., 2021, **34**, 409-434.

IF = 1.009

**63. Rzepecki Tomasz**

Hereditary G-compactness

Arch. Math. Log., 2021, **60**, 837-856.

IF = 0.492

**64. Servien Rémi, Tardivel Patrick, Concordet Didier**

Powerful multiple testing procedures derived from hyperrectangular confidence regions having a minimal volume

J. SFdS, 2021, **162**, 2-21.

IF = 0

**65. Sikora Adam, Zienkiewicz Jacek**

Probabilistic approach to the quantum separation effect for the Feynman-Kac semigroup

Studia Math., 2021, **257**, 1-24.

IF = 0.914

**66. Szwarc Ryszard**

Positivity of Turán determinants for orthogonal polynomials II

J. Approx. Theory, 2021, **270**, 1-10.

IF = 0.993

**67. Świątkowski Jacek**

Reflection trees of graphs as boundaries of Coxeter groups

Algebraic and Geometric Topology, 2021, **21**, 351-420.

IF = 0.76

**68. Świdorski Grzegorz, Trojan Bartosz**

Asymptotic behaviour of Christoffel-Darboux kernel via three-term recurrence relation I

Constr. Approx., 2021, **54**, 49-116.

IF = 1.779

**69. Świdorski Grzegorz, Trojan Bartosz**

Asymptotic behavior of Christoffel-Darboux kernel via three-term recurrence relation II

J. Approx. Theory, 2021, **261**, 1-48.

IF = 0.993

**70. Urban Roman**

Donsker's fuzzy invariance principle under the Lindeberg condition

Mathematica Slovaca, 2021, **71**, 439-454.

IF = 0.996

**71. Valiunas Motiejus**

Acyindrical hyperbolicity of groups acting on quasi-median graphs and equations in graph products

Group. Geom. Dyn., 2021, **15**, 143-195.

IF = 0.541

**72. Valiunas Motiejus**

On equationally Noetherian and residually finite groups

Journal of Algebra, 2021, **587**, 638-677.

IF = 0.908

**73. Wallin Jonas, Bogdan Malgorzata, Szulc Piotr, Doerge Rebecca W., Siegmund David Oliver**

Ghost QTL and hotspots in experimental crosses: novel approach for modeling polygenic effects

Genetics, 2021, **217**, 1-17.

IF = 4.402

**74. Wylupek Grzegorz**

A permutation test for the two-sample right-censored model

Ann. Inst. Stat. Math., 2021, **73**, 1037-1061.

IF = 1.18

**75. Wysoczański Janusz, Crismale Vitonofrio, Griseta Maria Elena**

Distributions for nonsymmetric monotone and weakly monotone position operators

Complex Anal. Oper. Theory, 2021, **15**, 1-26.

IF = 0.819