

ალექსი კირთაძის
სამეცნიერო შრომათა სრული ნუსხა

მონოგრაფია:

დინამიკური და კვაზიდინამიკური სისტემების თეორიის ზოგიერთი ასპექტი, გამომცემლობა „ტექნიკური უნივერსიტეტი“, თბილისი, 2006, 270 გვ.

- 1) **A. Kirtadze.** *To the question on the existence of a family of mutually singular measures in the space R^N , whose cardinality is maximal.* “Topological Aspects of the Theory of Functions”, Tbilisi. State University, Tbilisi, 1985 (in Russian).
- 2) **A.P. Kirtadze** and G.R. Pantsulaia. *The property of essential uniqueness of invariant measures in vector spaces.* Bull. Acad. Sci. GSSR, vol. 127, no. 1, 1987 (in Russian).
- 3) **A. Kirtadze.** *Nonseparable extensions of invariant measures in infinite-dimensional vector spaces that have the uniqueness property.* Bull. Acad. Sci., GSSR, vol. 136, no. 2, 1989 (in Russian).
- 4) **Kirtadze, A. P.** *Nonseparable extensions of invariant measures and the uniqueness property.* (Russian) Soobshch. Akad. Nauk Gruzii **142** (1991), no. 2, 261--264.
- 5) **A. Kirtadze, G. Pantsulaia.** *Invariant measures in the space R^N .* Bull. Acad. Sci. GSSR, vol. 141, no. 2, 1991 (in Russian).
- 6) **A. Kirtadze, G. Pantsulaia.** *On uniquely definable extensions of invariant measures in the space R^N .* Bull. Acad. Sci. of Georgia, vol. 149, no. 2, 1994 (in Russian).
- *7) **A. Kirtadze.** *On the method of direct products in the theory of quasi-invariant measures.* Georgian Math. Journal, vol. 12, no. 1. 2005.
- *8) **A. Kirtadze.** *On the uniqueness property for invariant measures.* Georgian Math. Journal, vol. 12, no. 3, 2005.
- 9) **A. Kirtadze.** *On the uniqueness property for invariant measures in infinite-dimensional product spaces.* “International Conference: Modern problems and new trends in probability theory” Chernivtsi, 2005.

- 10) **A. Kirtadze**, G. Pantsulaia. *On some notions of null sets in the infinite-dimensional topological vector space R^N* . Bull. Acad. Sci. Georgia, vol. 172, no. 2, 2005
- 11) **A. Kirtadze**, G.R. Pantsulaia. *Relation between shy sets and Haar null-sets Banach space l^∞* . Bull. Acad. Sci. of Georgia, vol. 172, no. 3, 2005.
- *12) A. Kharazishvili, **A. Kirtadze**, *On the measurability of functions with respect to certain classes of measures*, Georgian Mathematical Journal, vol. 11, no. 3, 2004, pp. 489 – 494.
- 13) A.B. Kharazishvili, **A. Kirtadze**. *On algebraic sums of measure zero sets in uncountable commutative groups*. Proc. A. Razmadze Math. Institute, vol. 135, 2004.
- 14) A.B. Kharazishvili, **A. Kirtadze**. *On algebraic sums of absolutely negligible sets*. Proc. A. Razmadze Math. Institute, vol. 136, 2004.
- 15) **A. Kirtadze**. *Some aspects of dynamical and quasidynamical systems* (in Georgian), Publishing House of Georgian Technical University, 2006, Tbilisi, 270 p.
- 16) A. Kharazishvili, **A. Kirtadze**, *Nonseparable left-invariant measures on uncountable solvable groups*, Proc. A. Razmadze Math. Institute, vol. 139, 2005.
- 17) **A. Kirtadze**, G. Pantsulaia, *On null sets in infinite-dimensional Banach spaces*, Proc. A. Razmadze Math. Institute, vol. 139, 2005.
- 18) **A. Kirtadze**, *A method of homomorphisms in the theory of invariant and quasi-invariant measures*, International Conference „Skorokhod Space 50 Years On”, 17-23 June, Kyiv, Ukraine, 2007.
- 819) A. Kharazishvili, **A. Kirtadze**, *On nonmeasurable subgroups of uncountable solvable groups*, Georgian Mathematical Journal, vol. 14, no. 3, 2007.
- 20) **A. Kirtadze**, G. Pantsulaia, *Lebesgue nonmeasurable sets and the uniqueness of invariant measures in infinite-dimensional vector spaces*, Proc. of A. Razmadze Math. Institute, vol. 143, 2007.
- 21) **A. Kirtadze**, *Some applications of surjective homomorphisms in the theory of invariant and quasi-invariant measures*, Proc. of A. Razmadze Math. Institute, vol. 144, 2007.
- *22) A. B. Kharazishvili, **A. P. Kirtadze**, *On extensions of partial functions*, Expositiones Mathematicae, vol. 25, no. 4, 2007.
- *23) A. B. Kharazishvili, **A. P. Kirtadze**, *On weakly metrically transitive measures and nonmeasurable sets*, Real Analysis Exchange, vol. 32(2), 2006/2007, p. 1-10.

24) **A. Kirtadze**, *On non-separable invariant measures*, Measure Theory – Edward Marczewski Centennial Conference, Bedlevo, September 9-15th, 2007.

www.math.uni.wroc.pl/~measure07/abstracts/kirtadze.pdf

25) **A. Kirtadze**, *On some estimates of topological weights of left-invariant measures on uncountable solvable groups*, Proc. A. Razmadze Institute, vol. 145, 2007.

26) **A. Kirtadze**, *Some remarks on the metrical transitivity for product of invariant and quasi-invariant measures*, Acta Universitatis Carolinae-Mathematica and Physica, v. 49, n. 2, 2008, pp. 67–74.

*27) A. B. Kharazishvili, **A. P. Kirtadze**, *On measurability of algebraic sums of small sets*, Studia Scientiarum Mathematicarum Hungarica, vol. 45, no. 3, 2008.

28) **A. Kirtadze**, *On Functions with Thick Graphs and Extensions of Measures*, Proc. A. Razmadze Math. Inst. 150, 139-141, 2009.

*29) **A. Kirtadze**, *On implemention of General Methematical Concepts in the Course of Geometry*, Journal of Goemetry, vol. 97, no. 1-2. 2010.

30) **A. Kirtadze**, T. Kasrashvili, *On some properties of certain discrete point-sets In Euclidean spaces*, Proc. A. Razmadze Math. Inst. 159(2012), pp. 155-157.

*31) T. Kasrashvili, **A. Kirtadze**, *On Some Combinatorial Properties of Diophantine Sets in Euclidean Spaces*, Journal of Geometry, vol. 103, 2012, pp. 11-12.

32) M. Beriashvili, **A. Kirtadze**,. *Non-separable Extensions of Invariant Borel measures and Measurability Proporties of Real-Valued Functions*, Proc. A. Razmadze Math. Inst. 162, 2013.

33) T. Gill, **A.Kirtadze**, G.Pantsulaia , A.Plichko, N.Rusiashvili, *On ordinary and standard ``Lebesgue measures " in separable Banach spaces*, Georg. Inter. J. Sci. Tech., Nova Science Publishers, Volume 5, Issues 3/4 (2013)

*34) T. Gill, **A.Kirtadze**, G.Pantsulaia , A.Plichko, *The existence and uniqueness of translation invariant measure in separable Banach spaces*, Functiones et Approximatio, Commentarii Mathematici, 50.2(2014), pp.401-419

35) G.Pantsulaia , **A.Kirtadze**, *On a certain modification of P. Erdos problem for translation-invariant quasi-finite diffused Borel measures in Polish groups that are not locally compact*, Georg. Inter. J. Sci. Tech., Nova Science Publishers, Volume 6, Issues 2, (2014), pp. 7-20

*36) M. Beriashvili, **A. Kirtadze**, On the uniqueness property of non-separable extensions of invariant Borel measures and relative measurability of real-valued functions, Georgian Mathematical Journal, vol.29, no.1, 2014, pp. 49-57.

*37) **A. Kirtadze**, T. Kasrashvili, Elementary volume from the measure-theoretical view-point, Journal of Geometry, vol, 105, issue 1, 2014, pp. 193-194.

38) M Beriashvili, **A. Kirtadze**, On relative measurability of real-valued functions with respect to some measures in space $\mathbb{R}^N$, Proc. A. Razmadze Math. Inst. 164, 2013, pp. 95-97.

39) G. Pantsulaia, **A. Kirtadze**, On Wetsenhansen-Kalai constants for infinite-dimensional surface dynamical measures, Georg. Inter. J. Sci. Tech., Nova Science Publishers, Volume 6, Issues 2 (2014), pp. 55-77.

40) **A. Kirtadze**, On nonmeasurability of additive functions, Proc. A. Razmadze Math. Inst. 167, 2015, pp. 135-137.

*41) **A. Kirtadze**, On volume type functional In Euclidean geometry, Journal of Geometry, vol.106, 2015.

42) **A. Kirtadze**, On small sets from the measure-theoretical point of view, Transactions of A. Razmadze Mathematical Institute, vol. 170, issue 2, 2016, pp. 205-207.

43) **A. Kirtadze**, Additive functions from measure-theory point-view, Journal of Mathematics and Statistics Sciences, vol. 2, 2016, pp. 513-523.

*44) T. Kasrashvili, **A. Kirtadze**, Elementary volume and measurability properties of additive functions, Georgian Mathematical Journal, vol. 23, issue 1, 2016, pp.69-73.

45) **A. Kirtadze**, On volume type functional In Euclidean geometry, Annual of Sofia University, vol. 103, 2016, pp. 45-53.

46) M. Beriashvili, **A.Kirtadze**, On the Application of Bernstein Type Construction to Measure Extension Problem, Reports of Enlarged Sessions of the Seminar of I. Vekua Institute of Applied Mathematics Volume 31, 2017

47) **A. Kirtadze**, N. Rusiashvili, Almost surjective homomorphisms and their measurability, Reports of Enlarged Sessions of the Seminar of I. Vekua Institute of Applied Mathematics Volume 43, 2017.

48) **A. Kirtadze**, N. Rusiashvili, On some methods of extending invariant and quasi-invariant measures, Transactions of A. Razmadze Mathematical Institute, 172(2018), 58-63.

* 49) M. Beriashvili, T. Gill, **A. Kirtadze**, On measurability of real-valued functions in infinite-dimensional topological vector spaces, Georgian Mathematical Journal, vol. 25, issue 2, 2018, pp.195-199.

* 50) **A. Kirtadze**, T. Kasrashvili, On the uniqueness of elementary volumes, Journal of Geometry, vol. 109, issue 1, 2018.

51) M. Khachidze, **A. Kirtadze**, On the one example of application of almost invariant sets, Reports of Enlarged Sessions of the Seminar of I. Vekua Institute of Applied Mathematics, Volume 32, 2018.

52) Sh. Beriashvili, T. Kasrashvili, **A. Kirtadze**, On the strong uniqueness of elementary volumes in $\mathbf{R}^2$, Reports of Enlarged Sessions of the Seminar of I. Vekua Institute of Applied Mathematics, Volume 32, 2018.

* 53) **A. Kirtadze**, On Kharazishvili's type measures in infinite-dimensional Polish vector spaces, Georgian Mathematical Journal, vol. 26, issue 4, 2019, pp. 537-545.

54) **A. Kirtadze**, The behavior of small sets under the product operation, Bulletin of TICMI, vol. 23, No. 2, 2019. pp. 109-114.

55) **A. Kirtadze**, G. Pantsulaia, Some results of A. Kharazishvili on the structure of pathological functions, Transactions of A. Razmadze Mathematical Institute, vol. 174, issue 1, 2020, pp. 1-8.

56) **A. Kirtadze**, The strong uniqueness property of invariant measures in infinite dimensional topological vector spaces, Transactions of A. Razmadze Mathematical Institute, vol. 174, issue 1, 2020, pp. 117-119.

57) T. Kasrashvili, **A. Kirtadze**, On some extensions of volume type functionals on the space $\mathbf{R}^n$, which are invariant (quasi-invariant) with respect to various groups of transformations of $\mathbf{R}^n$, Journal of Geometry, vol.111, issue 2, 2020.

58) M. Khachidze, **A. Kirtadze**, The strong uniqueness property of invariant measures in infinite dimensional topological vector spaces, Transactions of A. Razmadze Mathematical Institute, **174** (2020), no. 1, 117-119

59) **A. Kirtadze**, G. Pantsulaia, N. Rusiashvili, On uniform distribution for invariant extensions of the linear Lebesgue measure. Transactions of A. Razmadze Mathematical Institute, vol.175, issue 3, pp. 391-400, 2021.

60) **A. Kirtadze**, The method of almost surjective homomorphisms and the relative measurability of functions, Transactions of A. Razmadze Mathematical Institute, vol.176, issue 1, 2022.

61) M. Beriashvili, M. Khachidze and A. Kirtadze. Absolutely negligible sets and their algebraic sums, 177 (2023), no. 1, 131-133

სახელმძღვანელო:

1. ა. კირთაძე, ლეხეგის ზომა, საგამომცემლო სახლი „ტექნიკური უნივერსიტეტი“ 2019, 351გვ.

დამხმარე სახელმძღვანელო:

1. თ. შერვაშიძე, ა. კირთაძე, ზ. ქვათაძე, გ. ფანცულაია, მათემატიკური სტატისტიკა ბიზნესსა და ეკონომიკაში, გამომცემლობა „უნივერსალი“, 2016, 246გვ.

საღეჭციო კურსები:

1. მ. ბერიაშვილი, ა. კირთაძე, ინვარიანტული და კვაზინვარიანტული ზომები, საგამომცემლო სახლი „ტექნიკური უნივერსიტეტი“ 2019, 128გვ.

2. ა. კირთაძე, ზომა და ალბათობა, საგამომცემლო სახლი „ტექნიკური უნივერსიტეტი“ 2019, 95 გვ.

3. ა. კირთაძე, ზომა და კატეგორია, საგამომცემლო სახლი „ტექნიკური უნივერსიტეტი“ 2019, 146 გვ.