

CURRICULUM VITAE

1. Biographical Statement

First Name: **Utkir**

Family Name: **Rozikov**

Middle name: **Abdulloyevich**

Personal: Year of Birth: 1970, 20 May, Bukhara, Uzbekistan.

Marital status: Married. Have three children.

Nationality: Uzbekistan

AFFILIATION Institution: Institute of Mathematics.

Mailing Address: Institute of Mathematics, 81, Mirzo Ulug'bek str. 100170, Tashkent, Uzbekistan

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Academic Degree:

- Doctor of philosophy in physics and mathematics, (Certificate: 01N002466, 29.02.1996)
- Doctor of sciences in physics and mathematics. (Certificate: N04.003457, 27.09.2001)
- Professor (Certificate: 05N002449, 27.05.2010)

2. Education:

(a) first degree course (subject, university, dates)	Mathematics, Samarkand State University 01/09/1987- 20/06/1993
(b) doctoral thesis (title, university date, supervisor's name)	Extreme Gibbs measures for some models on Cayley trees, Institute of Mathematics, 11/10/1995, Prof. Nasir Ganikhodjaev
(c) 'habilitation' or 'kandidatura' thesis (title, university, date)	Investigations of Gibbs measures and random walks in a random environment on Cayley trees. 24/01/2001.

3. Languages:

English (Good), Russian (Very Good), Uzbek (Native), Tajik (Very Good)

4. Professional occupation:

1995 - 1999 Scientific fellow of the Institute of Mathematics, Tashkent, Uzbekistan.

1999 - 2001 Post doctoral fellow,

2001 - up to present time Leading scientific fellow.

5. Pedagogical activities.

1999-2003 *Associate Professor* of The Tashkent State Economical University.

2000-2002 *Professor* of The National University of Uzbekistan. Special courses on "Gibbs measures and phase transitions" and " p -adic analysis and Dynamical systems", General course on "Functional analysis".

01.2007-12.2007 *Professor* of The School of Mathematical Sciences, GC University Lahore, Pakistan. Special courses on "Gibbs distributions and phase transitions" and "Dynamical systems".

6. Grants, Awards, Fellowships

1. (1995) Prize of Japan Embassy in Tashkent.
2. (2001) Prize winner among young scientists of Academy Sciences of Uzbekistan.
3. (2001) Prize of Third World Academy of Science (TWAS) and Uzbek Academy of Science.
4. (2002) Grantee of Cambridge colleges hospitality scheme.
5. (2002) Grantee for ICM-2002, Beijing, China.
6. (2002, 2004) Fellowship grants received from ICTP, Trieste, Italy (3 months each)
7. (2003) Grantee for NATO-Advanced Studies, Edinburgh, UK
8. (2003) Medal "Uzbekiston Belgisi" from government of Uzbekistan.
9. (2003, 2006, 2012) Fellowship grant received from IHES, Bures-sur-Yvette, France (4 months, 2 months and 3 months durations).
10. (2003-2006) NATO Reintegration Grant (3 years duration)
11. (2004) The Royal Society grant in Newton Institute, Cambridge, UK.
12. (2004) Medal "The excellent teacher" of national education of Uzbekistan.
13. (2004-2005) CNR-Fellowship grant received from the Italian Center of National Researches,(6 months duration).
14. (2005-2010) Junior Associate of ICTP, Trieste, Italy.
15. (2007-2012) TWAS young Affiliate, Trieste,Italy.
16. (2009) Prize of TWAS for young scientists.
17. (2010) TUBITAK grant, Zirve university, Turkey (1 month duration).
18. (2010-2012) TWAS Research Grant (1.5 years duration).
19. (2010, 2011, 2012, 2013, 2016,2017) Visiting professor fellowships, University Santiago de Compostela, Spain (2, 3, 1, 1, 2 and 2 months durations).
20. (2011, 2013) Visiting professor fellowship, Universite du Sud Toulon Var and Centre de Physique Theorique, Marseille, France (1 month duration each).
21. (2011) DFG AL 214/36-1 grant, Germany (1 year duration).
22. (2012) TWAS young Alumnus, Trieste, Italy.

23. (2012) CNRS fellowship, Centre de Physique Theorique, Marseille, France (3 months duration).
24. (2013,2014) Visiting professor fellowships, Ruhr University, Bochum, Germany (2 months duration each).
25. (2014) Grantee for ICM-2014, Seoul, Korea.
26. (2014) Visiting professor fellowship, University Paris-Est, Paris, France (1 month duration).
27. (2015) Resident of Aix-Marseille University, Institute for Advanced Study IMéRA, Marseille, France (5 months duration).
28. (2016) London Mathematical Society, Scheme 2 grant, UK (2 weeks duration).
29. (2016) A visiting research grant from the School of Mathematics at Leeds, UK (2 weeks duration).
30. (2016) A visiting fellowship of University of Geneva, Switzerland (2 weeks duration).
31. (2017) A State Prize from the government of Uzbekistan.
32. (2017) Springer Nature TOP Author Award for high publication activity in scientific journals, published by Springer Nature.
33. (2017) A visiting fellowship of University of Granada, Spain (1 month duration).

7. Visits :

Host institution, country:	Reason for visit	From :	To :
1. Institute of Mathematics, Kiev, Ukraine	Conference in Probab. Theory and Math. Stat.	8.06.1999	12.06.1999
2. Institute for information transmission Problems, Moscow, Russia	For discussion of results	19.06.2000	24.06.2000
3. Cambridge, UK	Cambridge colleges hospitality scheme	1.07.2002	31.07.2002
4. Beijing, China	International Congress of Mathematicians	20.08.2002	28.08.2002
5. Inter. Center of Theor. Phys. Trieste, Italy	Visiting Mathematician	16.09.2002	16.12.2002
6. Edinburgh , UK	NATO ASI	07.07.2003	20.07.2003
7. IHES, Bures-sur-Yvette, France	Visiting Mathematician	05.09.2003	26.12.2003
8. Newton Institute Cambridge, UK	IGCSS programme	10.11.2003	25.11.2003
9. The Abdus Salam International Center for Theor. Physics, Trieste, Italy	Visiting Mathematician	08.04.2004	08.07.2004
10. Newton Institute Cambridge, UK	The Royal Society grant	22.08.2004	06.09.2004
11. University Rome 1 Rome, Italy	NATO-CNR fellowship	06.09.2004	22.02.2005
12. Moscow State University Russia	For discussion of results	19.10.2005	21.10.2005
13. University Rome 1 Rome, Italy	Visiting Mathematician	21.10.2005	08.11.2005
14. The Abdus Salam International Center for Theor. Physics, Trieste, Italy	Junior Associate member	22.05.2006	20.08.2006
15. IHES, Bures-sur-Yvette, France	Visiting Mathematician	26.10.2006	26.12.2006
16. SMS, GC University, Lahore, Pakistan	Faculty	21.02.2007	22.05.2007
17. IIUM, Kuantan, Malaysia	Visiting Mathematician	16.07.2007	14.08.2007
18. SMS, GC University, Lahore, Pakistan	Faculty	26.09.2007	25.12.2007
19. TWAS, Trieste, Italy	18th General Meeting	12.11.2007	15.11.2007
20. The Abdus Salam International Center for Theor. Physics, Trieste, Italy	Junior Associate member	23.06.2008	28.08.2008
21. Bonn University, Germany	For discussion of results	01.08.2008	09.08.2008
22. Mexico City, Mexico	TWAS meeting	09.11.2008	15.11.2008

23. St John's University, New York, USA	For discussion of results	15.11.2008	16.11.2008
24. The Abdus Salam International Center for Theor. Physics, Trieste, Italy	Junior Associate member	03.02.2009	30.04.2009
25. ASSMS, GC University, Lahore, Pakistan	Faculty	02.10.2009	01.12.2009
26. University of Santiago de Compostela, Spain	Visiting Mathematician	20.02.2010	11.04.2010
27. Zirve University, Gaziantep, and Harran University Turkey	TUBITAK grant	15.05.2010	31.05.2010
28. The Abdus Salam International Center for Theor. Physics, Trieste, Italy	Junior Associate member	02.08.2010	30.08.2010
29. University of Santiago de Compostela, Spain	Visiting Mathematician	11.01.2011	29.03.2011
30. Department of Applied Mathematics, E.U.I.T. Forestal, Pontevedra, University of Vigo, Spain	Visiting Mathematician	24.01.2011	30.01.2011
31. Université du Sud Toulon-Var and The Centre de Physique Théorique, Marseille, France	Visiting Mathematician	10.06.2011	08.07.2011
32. Bonn University, Germany	DFG project, collaboration	17.10.2011	01.12.2011
33. TWAS, Trieste, Italy	22th General Meeting	20.11.2011	24.11.2011
34. IHES, Bures-sur-Yvette, France	Visiting Mathematician	17.01.2012	14.04.2012
35. University of Santiago de Compostela, Spain	Visiting Mathematician	22.06.2012	20.07.2012
36. Department of Applied Mathematics, E.U.I.T. Forestal, Pontevedra, University of Vigo, Spain	Visiting Mathematician	09.07.2012	11.07.2012
37. The Centre de Physique Théorique, Marseille, France	CNRS	24.09.2012	20.12.2012
38. Université du Sud Toulon-Var and The Centre de Physique Théorique, Marseille, France	Visiting Mathematician	09.04.2013	08.05.2013
39. University of Santiago de Compostela, Spain	Visiting Mathematician	28.06.2013	26.07.2013
40. Ruhr University, Bochum, Germany	Visiting Mathematician	07.10.2013	06.12.2013
41. Seoul, Korea	ICM-2014	11.08.2014	22.08.2014
42. Ruhr University, Bochum, Germany	Visiting Mathematician	02.10.2014	23.11.2014
43. Université Paris Est Créteil, France	Visiting Mathematician	23.11.2014	23.12.2014
44. Aix-Marseille University, IMéRA, France	Resident	23.02.2015	17.07.2015
45. University of Leeds, UK	Visiting Mathematician	29.01.2016	01.03.2016
46. Durham University, UK	Talk in a seminar	01.02.2016	01.02.2016

47. Warwick University, UK	Talk in a seminar	04.02.2016	04.02.2016
48. Institute of Mathematics and Math. Modeling, Almaty, Kazakhstan	Inter. Conference	07.04.2016	09.04.2016
49. University of Geneva, Switzerland	Visiting Mathematician	11.04.2016	24.04.2016
50. University of Santiago de Compostela, Spain	Visiting Mathematician	24.04.2016	10.06.2016
51. University of Santiago de Compostela, Spain	Visiting Mathematician	01.05.2017	29.06.2017
52. Department of Applied Mathematics, E.U.I.T. Forestal, Pontevedra, University of Vigo, Spain	Talk in a seminar	22.06.2017	22.06.2017
53. National Center of Science and Technology Evaluation, Almaty, Kazakhstan	Springer Nature TOP Author Award	05.10.2017	06.10.2017
54. University of Granada, Spain	Visiting Mathematician	02.11.2017	30.11.2017

8. My PhD students.

1. Hamraev A.Yu. PhD (Dr.) since 6.04.2006. Thesis title: On behavior of trajectories and other properties of cubic operators.

2. Normatov E.P. PhD (Dr.) since 14.02.2007. Thesis title: On properties of group representation of Cayley tree.

3. Shoyusupov Sh.A. PhD (Dr.) since 07.02.2008. Thesis title: Description of Gibbs measures of non symmetrical models on Cayley tree.

4. Rahmatullaev M.M. PhD (Dr.) since 24.09.2009. Thesis title: On weakly periodic Gibbs measures and ground states for classical models of statistical mechanics on a Cayley tree. *Doctor of Sciences* since 26.10.2017. Thesis title: Weakly periodic Gibbs measures and ground states for the classical models of statistical mechanics on a Cayley tree.

5. Botirov G.I. PhD (Dr.) since 23.12.2010. Thesis title: Description of ground states and Gibbs measures for multicomponent models on a Cayley tree.

6. Zhamilov U.U. PhD (Dr.) since 13.10.2011. Thesis title: On strongly non Volterra and F -quadratic stochastic operators.

7. Khakimov R.M. PhD (Dr.) since 20.07.2017. Thesis title: Limiting Gibbs measures for the lattice systems with a finite set of spin values.

8. Ishakulov F.T. PhD (Dr.) since 09.02.2018. Thesis title: Description of generalized harmonic functions on trees.

9. Madg'oziev G'. Thesis title: Description of Gibbs measures for G -Hard-Core models on a Cayley tree.

10. Turaev F. Thesis title: p -adic Gibbs measures of p -adic models on Cayley trees.

11. Murodov Sh. Thesis title: Dynamical systems generated by finite dimensional evolution algebras.

12. Karimov M.M. Thesis title: Dynamical systems on the set of idempotent measures.

13. Khakimov O.N. Thesis title: p -adic Gibbs measures on countable graphs.

14. Sattarov I.A. Thesis title: p -adic dynamical systems of rational functions.

9. Fields of research: Algebra; Probability theory and stochastic processes; Dynamical systems and ergodic theory; Functional analysis. Mathematical physics.

My researches carry on the following fields:

I. Group representations of trees and their properties.

II. Gibbs measures of lattice models of statistical mechanics.

III. p -adic Gibbs measures in the field of p -adic numbers.

IV. Random walks in a random environment on the metric spaces.

V. The dynamical systems and processes generated by nonlinear operators.

VI. Von Neumann algebras associated with a limit Gibbs state of certain models of quantum statistical mechanics.

VII. p -adic dynamical systems.

VIII. Harmonic and p -harmonic functions on graphs.

IX. Evolution and genetic algebras.

X. Percolation theory on graphs.

The main results of my work can be found in publications (see the list of publications)

10. Fields of application:

1. Group theory and graph theory.

2. Theoretical physics, in particular the phase transitions theory.

3. Theory of Markov random fields. Random walks in unordered spaces.

4. p -adic statistical physics.

5. Genetics and population dynamics.

11. Membership:

2001-2010 : Member of the Mechanical and Mathematical Council of the Highest Certifying Commission of Uzbekistan.

2010- 2012 : Member of Special Council D015.17.01 to confer academic degrees of Doctor of Philosophy in physics and mathematics (Ph.D.) and Doctor of Sciences in physics and mathematics, Institute of Mathematics, Tashkent, Uzbekistan.

2016- present : Member of Special Council 14.07.2016.FM.01.01 to confer academic degrees of Doctor of Philosophy in physics and mathematics (Ph.D.) and Doctor of Sciences in physics and mathematics, National University of Uzbekistan and Institute of Mathematics, Tashkent, Uzbekistan.

2001-present : Member of Uzbek Mathematical Society

2003-present : Member of American Mathematical Society

2001-present : Reviewer of American Mathematical Society

2003-present : Reviewer of Zentralblatt Math

12. Co-organizer of Conferences/Workshops:

10. International Conference "Algebra, Analysis and Quantum Probability", 10-12 September, 2015, Tashkent, Uzbekistan.
9. Workshop: "Dynamical Systems: Modern results on Gibbs-non-Gibbs dynamical transitions, Thermodynamics of extremality of Gibbs measures, Evolution dynamics of population genetics." 25-26 June, 2015, Center Theoretical Physics, Luminy and IMÉRA, Marseille, France.
8. National Conference with the participation of scientists from CIS Modern Problems of Differential Equations and its Applications, 21-23 November, 2013, Tashkent, Uzbekistan;
7. International Conference Problems of modern topology and applications, 20-24 May, 2013, Tashkent, Uzbekistan;
6. National Conference New theorems of young mathematicians 2013, 15-16 April, 2013, Namangan, Uzbekistan;
5. National Conference Actual Problems of Mathematical Analysis, 9-10 November 2012, Urgench, Uzbekistan;
4. International Conference Operator algebras and related topics, 12-14 September, 2012, Tashkent, Uzbekistan.
3. National Conference "New theorems of young mathematicians- 2010", 12-13 April, 2010, Namangan, Uzbekistan.
2. International Conference "Control and optimization of dynamical systems", 28-30 September, 2009, Tashkent, Uzbekistan.
1. International Conference "Operator algebras and quantum probability", 10-13 September, 2005, Tashkent, Uzbekistan.

13. A list of talks in international seminars and workshops:

- 1) 09 June 1999: Title "Periodic Gibbs distributions of the λ -models on the Cayley tree." In the third Ukrainian - Scandinavian Conf. in Prob. Theory and Math. Stat. Kyiv, Ukraine
- 2) 10 June 1999: Title "Random walks in a random environment on the metric space." In the third Ukrainian - Scandinavian Conf. in Prob. Theory and Math.Stat. Kyiv, Ukraine.
- 3) 23 June 2000: Title "Periodic Gibbs measures for non homogenous Ising model on trees" In Dobrushin Mathematics Laboratory Seminar, IITP, Moscow, Russia.
- 4) 18 July 2002: Title "Gibbs random fields on Cayley trees" In Statistical Laboratory Probability Seminars, Cambridge University, Cambridge, UK.
- 5) 25 August 2002: Title "On Gibbs measures of Ising model on Cayley tree". In ICM-2002, Beijing, China.
- 6) November 2002: Title "On Gibbs measures on Cayley trees" In seminar section of Math, ICTP, Trieste, Italy.

- 7) June 2006: Title "On p-adic Gibbs measures on Cayley trees" In seminar section of Math, ICTP, Trieste, Italy.
- 8) April 2007: Title "Gibbs measures on countable graphs" In seminar of SMS, GC University, Lahore, Pakistan.
- 9) August 2007: Title "Counter methods on trees" In a seminar of IIUM, Kuantan, Malaysia.
- 10) August 2008: Title "Gibbs measures on trees: two methods" In seminar of Prof. S. Alberverio, Bonn University, Germany.
- 11) March 2010: Title "Evolution algebras and their applications" In a seminar of University of Santiago de Compostela, Spain.
- 12) May 2010: Title "Gibbs measures on trees" In a seminar of Zirve University, Gaziantep and Harran University Turkey.
- 13) 26 August 2010: Title "The dynamical systems in population biology" In Dynamical systems seminar of ICTP, Trieste, Italy.
- 14) 25 January 2011: Title "Chain of evolution algebras" In a seminar of University Vigo, Pontevedra, Spain.
- 15) June 2011: Title "Two methods in the theory of Gibbs measures on trees" CPT, Luminy, Marseille, 2011.
- 16) 11 November 2011: Title "p-adic Gibbs measures compared with real" In seminar of Prof. S. Alberverio, Bonn University, Germany.
- 17) 17 November 2011: Title "Dynamical systems in biology " In seminar of Prof. A. Bovier, Bonn University, Germany.
- 18) March 2012: Title "Real and p-adic Gibbs measures on trees" In a seminar of Prof. D.Ruelle, IHES, Bures-sur-Yvette, France.
- 19) 10 July 2012: Title "p-adic numbers and their applications" In a seminar of Department of Applied Mathematics, University of Vigo, Spain
- 20) 7 November 2012, Title "p-adic Gibbs measures in statistical mechanics" in a seminar of the Centre de Physique Theorique, Luminy, Marseille, France.
- 21) 21 November 2012: Title "Dynamical systems in population biology" in a seminar of the Centre de Physique Theorique, Luminy, Marseille, France.
- 22) April 2013: Title "What are p-adic numbers, what are they used for?" University Toulon, Toulon, France.
- 23) 3 December 2013: Title "Gibbs measures on trees: counter methods" in a seminar of Ruhr University, Bochum, Germany.
- 24) December 2014: Four talks: two talks on p-adic numbers and p-adic measures, one talk on mathematical billiards, one talk on Zebra-percolations on trees, In University Paris Est Creteil, France.

- 25) 4 December 2014: Title "Gibbs measures for Ising model on Cayley trees: results and open problems" in Workshop "Processus with variable memories in probability and statistical mechanics" University Paris Est Creteil, France.
- 26) 2 April 2015: Title "Dynamical systems and their applications" a presentation in IMeRA, Marseille, France.
- 27) 29 April 2015, Title "Evolution operators and algebras of sex linked inheritance" In a seminar of CPT, Luminy, Marseille.France.
- 28) 26 June 2015, Title: "Quadratic dynamical systems of bisexual population: results and open problems". A talk at the workshop (organized by IMeRA) CPT, Luminy. Marseille, France.
- 29) 1 February 2016, Title: " p -adic Gibbs measures". Statistics Seminars, Durham University, UK.
- 30) 4 February 2016, Title: "Gibbs measures of the Ising model on Cayley trees: Modern results and open problems". Warwick Statistical Mechanics Seminar in the Department of Mathematics, Warwick, UK.
- 31) 10 February 2016, Title: "Stochastic dynamical systems in population biology". University of Leeds, School of Mathematics, Mathematical Biology and Medicine seminar. Leeds. UK.
- 32) 8 April 2016. Title: "Evolution algebras in free and bisexual populations". Institute of Mathematics and Math. Modeling, Almaty, Kazakhstan. International Conference.
- 33) 22 April 2016. Title: " p -adic numbers and their applications". University Geneva. Geneva, Switzerland. Pizza-Seminar.
- 34) 22 June 2017. Title: "Flow of finite dimensional algebras". University Vigo, Pontevedra, Spain.
- 35) 21, 23 and 30 November 2017. Lectures in a mini-course (6 hours) on "Dynamical systems of their applications". University Granada and Institute of mathematics, Granada, Spain.
- 36) 27 November 2017. Title: "Evolution algebras of free and bisexual populations", Department of Mathematical Analysis, University Granada, Spain.

14. Information from <https://scholar.google.es> of my account "Utkir Rozikov"
 Information on 16 January 2018:

Citations: 2140

h-index: 24

i10-index: 65

The **total sum** of Impact Factors of published (in international journals) papers ([1]-[123], see the list of my publications) is equal to **81.098**

U.A. ROZIKOV'S LIST OF PUBLICATIONS

A) BOOKS:

2. Rozikov U.A. Gibbs measures on Cayley trees. *World Sci. Publ.* Singapore. 2013, 404 pp.
1. Azamov A., Rozikov U.A. (Eds) (2009) Abstracts of International Conference "Control and optimization of dynamical systems", UzAS, Tashkent.

B) In International Refereed Journals:

(IF=Impact Factor Web of Science.)

2018:

125. (IF=) Rozikov U.A., Khakimov R.M., Haydarov F. Extremality of translation invariant Gibbs measures for Potts model on Cayley tree. *Theor. Math. Phys.* 2018.
124. (IF=) Omirov B.A., Rozikov U.A. On subalgebras of an evolution algebra of a "chicken" population. *Journal of Algebra and Related Topics.* 2018
123. (IF=0.604) Rozikov U. A., Botirov G. I. Non-translation-invariant Gibbs measures for models with uncountable set of spin values on a Cayley tree. *Reports Math. Phys.* 2018, V.81, No.1, p.105-115.

2017:

122. (IF=1.604) Rozikov U.A., Sattarov I.A., p -adic dynamical systems of $(2, 2)$ -rational functions with unique fixed point. *Chaos, Solitons and Fractals.* 2017, V.105, p.260-270.
121. (IF=0.984) Rozikov U.A., Tugyonov Z.T. Construction of a set of p -adic distributions. *Theor. Math. Phys.* 2017. V.193, No. 2, p.1694-1702.
120. (IF=2.196) Rakhmatullaev M.M., Rozikov U.A. Ising model on Cayley trees: a new class of Gibbs measures and their comparison with known ones. *Jour. Stat. Mech.: Theory and Exper.* 2017. P093205, 15 pages.
119. (IF=0.610) Ladra M., Rozikov U.A. Construction of flows of finite-dimensional algebras. *Jour. Algebra.* 2017. V. 492, p. 475-489.
118. (IF=1.566) Rozikov U.A. Tree-hierarchy of DNA and distribution of Holliday junctions. *Jour. Math. Biology,* 2017. V.75, No.6-7, p.1715–1733.
117. (IF=0.984) Rozikov U.A., Haydarov F.H. Four Competing interactions for models with uncountable set of spin values on a Cayley Tree. *Theor. Math. Phys.* 2017. V.191, No. 3, p. 910-923.

116. (IF=1.349) Gandolfo D., Rahmatullaev M.M., Rozikov U.A., Boundary conditions for translation-invariant Gibbs measures of the Potts model on Cayley trees. *Jour. Stat. Phys.* 2017. V.167, No. 5, p.1164–1179.
115. (IF=1.243) Kuelske C., Rozikov U.A., Fuzzy transformations and extremality of Gibbs measures for the Potts model on a Cayley tree. *Random Structures and Algorithms.* 2017. V.50, No.4, p. 636-678.
114. (IF=-NA-) Rozikov U.A., Jamilov U.U. On quadratic stochastic operators corresponding to cyclic groups. *Jour. Discontinuity, Nonlinearity, and Complexity.* 2017. V.6, No. 2., 147-164.
113. (IF=1.000) Ladra M., Rozikov U.A. Algebras of cubic matrices. *Linear and Multilinear Alg.* 2017. V.65, No.7, p. 1316–1328.
112. (IF=0.984) Rozikov U.A., Rahmatullaev M.M., On free energies of the Potts model on the Cayley tree. *Theor. Math. Phys.* 2017. V.190, No.1, p.98-108.
111. (IF=0.610) Ladra M., Rozikov U.A. Flow of finite-dimensional algebras. *Jour. Algebra.* 2017. V.470, p. 263-288.

2016:

110. (IF=0.484) Gandolfo D, Rozikov U.A., Ruiz J., On four state hard core models on the Cayley tree. *Markov Processes Related Fields.* 2016. V.22, No.2, p. 359–377.
109. (IF=-NA-) Rozikov U.A., Sattarov I.A., Usmonov J.B., The dynamical system generated by the floor function $[\lambda x]$. *Journal of Applied Nonlinear Dynamics.* 2016. V. 5, No. 2, p.185-191.
108. (IF=-NA-) Mamurov B.J., Rozikov U.A., On cubic stochastic operators and processes. *J. Phys. Conf. Ser.* 2016. V.697, 012017, 15 pages.
107. (IF=-NA-) Rozikov U.A., Varro R., Dynamical systems generated by a gonosomal evolution operator. *Jour. Discontinuity, Nonlinearity, and Complexity.* 2016. V. 5, No. 2, p.173-185.
106. (IF=0.973) Dzhumadil'daev A., Omirov B.A., Rozikov U.A. Constrained evolution algebras and dynamical systems of a bisexual population. *Linear Algebra Appl.* 2016. V.496, p. 351–380.

2015:

105. (IF=-NA-) Hiroshima F, Lőrinczi J., Rozikov U.A., Periodic solutions of generalized Schrödinger equations on Cayley trees. *Commun. Stoch. Anal.* 2015. V. 9, No. 2, p. 283–296.
104. (IF=1.060) Rozikov U.A., Khakimov R.M. Gibbs measures for the fertile three-state hard core models on a Cayley tree. *Queueing Systems.* 2015. V.81, No.1.,p.49-69.
103. (IF=0.343) Albeverio S., Omirov B.A., Rozikov U.A. Periodic algebras generated by groups. *Algebra Colloquium.* 2015. V.22, No.4., p.541-554.

102. (IF=1.430) Kuelske C., Rozikov U.A. Extremality of translation-invariant phases for a three-state SOS-model on the binary tree, *Jour. Stat. Phys.* 2015. V.160, No.3, p. 659-680.
101. (IF=0.484) Rozikov U.A., Khakimov O.N. Description of all translation-invariant p -adic Gibbs measures for the Potts model on a Cayley tree. *Markov Processes Related Fields.* 2015. V.21, No.1, p.177-204.
100. (IF=0.682) Rozikov U.A., Haydarov F.H. Periodic Gibbs measures for models with uncountable set of spin values on a Cayley Tree. *Infin. Dimens. Anal. Quantum Probab. Relat. Top.* 2015. V. 18, No. 1, 1550006 (22 pages).
99. (IF=1.000) Omirov B.A., Rozikov U.A., Tulenbayev K.M., On real chains of evolution algebras. *Linear Multilinear Algebra.* 2015. V. 63, No. 3, p. 586-600.
- 2014:**
98. (IF=-NA-) Rozikov U.A., Haydarov F.H. Normal subgroups of finite index for the group representation of the Cayley tree. *TWMS Jour. Pure Appl. Math.* 2014. V.5, No.2, p.234-240.
97. (IF=0.531) Dzhumadil'daev A., Omirov B.A., Rozikov U.A. On a class of evolution algebras of "chicken" population. *Inter. Jour. Math.* 2014. V.25, No.8, 1450073 (19 pages).
96. (IF=-NA-) Ladra M., Omirov B.A., Rozikov U.A. Dibaric and evolution algebras in biology. *Lobachevskii Journal of Math.* 2014. V.35, No.3, p. 198-210.
95. (IF=0.783) Rozikov U.A., Akin H., Uguz S. Exact solution of a generalized ANNNI model on a Cayley tree. *Math. Phys. Anal. Geom.* 2014. V.17, No.1, p.103-114.
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