

CURRICULUM VITÆ
Rostislav Ivanovich GRIGORCHUK

Texas A&M University

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CURRENT POSITION

Texas A&M University, Department of Mathematics, Distinguished Professor.

EDUCATION

Habilitation, Mathematics	1985
Steklov Institute of Mathematics	
Thesis: " <i>Groups with intermediate growth function and their applications</i> "	
Ph.D., Mathematics	1978
Moscow Lomonosov State University	
Thesis: " <i>Banach means on homogeneous spaces and random walks</i> "	
B.Sc., M.Sc., Mathematics (with honors)	1970 - 1975
Moscow Lomonosov State University	

PROFESSIONAL CAREER

Texas A&M University, College Station, TX

Department of Mathematics, Professor 2002-2008, Distinguished Professor 2008 - current

Russian Academy of Science, Steklov Mathematical Institute, Moscow

Department of Ordinary Differential Equations. Leading researcher 1995 - current

Moscow Lomonosov State University, Department of Dynamical Systems, Professor. 2001 - 2002

Moscow State University of Transportation, Department of Mathematics

Chair 1992 - 1995

Professor 1987 - 1995

Associate Professor 1983 - 1987

Assistant Professor 1978 - 1983

TITLES and AWARDS

Association of Former Students Distinguished Achievement Award in Research, Texas A&M University	2009
Award of Russian Academy of Science and the MAIK Publishing for the best publication of scientific paper in 2001, 2002	2002
Award "The best scientific result for 2001 in the Russian Academy of Science"	2001
Fellow of the Asymptotic Group Theory Programm in the Institute of Advance Studies in the Hebrew University of Jerusalem	2000
Award "The best scientific result for 2000 in the Steklov Institute of Mathematics"	2000
Award "The best scientific result for 1999 in the Russian Academy of Science"	1999
State Award "Outstanding scientist of Russia"	1994-96, 1997-99
London Mathematical Society Visiting Professor Award	1994, 2000
Prize of Russian Foundation "Mathematics"	1992
Fullbright Senior Fellowship at Columbia University, USA	1991
Professor in Mathematics, awarded by Department of Education of USSR	1987
Doctoral dissertation (Russian equivalent of French or German Habilitation) Steklov Mathematical Institute	1985
Thesis: " <i>Growth functions of finitely generated groups and it applications</i> "	
Award of Moscow Mathematical Society	1980
Award of Moscow Lomonosov State University for the Best Diploma Research Paper	1975

GRANTS

"Algebraic, combinatorial, spectral and algorithmic properties of groups generated by finite automata", Supported by: National Science Foundation	2006-2008
"FRG: Asymptotic and Probabilistic Methods in Geometric Group Theory", Supported by: National Science Foundation	2005-2007
"Algebraic, geometric and combinatorial properties of branch groups", Supported by: National Science Foundation	2002-2005
"Spectral and asymptotic properties of branch groups" Supported by: Swiss National Foundation for Scientific Research	2000-2002
"Ihara zeta function of infinite graphs and groups" Supported by: CNRS of France	2001-2002
"Algorithmic and rigidity properties of Branch Groups" Supported by: Royal Society	2000
"Groups generated by finite automata and its applications" Supported by: Leading Scientific Schools of the Russian Federation, project 00-15-96107 of Russian Academy of Science,	2000-2002
Leading Scientific Schools of the Russian Federation	1998-2000
Russian Fund for Fundamental Research	1993-95, 1996-1998
International Science Foundation	1993-1997

EDITORIAL BOARDS

Editor-in-Chief: Groups, Geometry and Dynamics

Geometriae Dedicata
Journal of Modern Dynamics
International Journal of Algebra and Computation
Matematicheskie Zametki (Mathematical Notes) 1991-2002
Ukrainian Mathematical Journal (Honorary Member)
Matematichni Studii
Algebra and Discrete Mathematics

Volume editor for:

“Dynamical Systems, Automata, and Infinite Groups”, Proceedings of the Steklov Institute of Mathematics, V.231, 2000, Issue 4.

Algebra and Discrete Mathematics, 2005, no.1. Special issue devoted to Professor Yuriy Drozd.

Groups, Geometry and Dynamics, V.1, no.4. 2007. Special Issue in honor of the retirement of Avinoam Mann.

Geometriae Dedicata, Proceedings of the conference “Geometric and Probabilistic Methods in Group Theory and Dynamical Systems”, College Station, November 2005, In Geometriae Dedicata 124 (2007).

National Professional Committees

Russian National Committee VAK (1995–2004)

Referee for:

National Science Foundation

National Security Agency

European Research Council

Switzerland National Science Foundation

Israel Science Foundation

Science and Engineering Research Canada

Marie Curie fellowship proposal with the European Commission’s 6th Framework Program

Pierre Deligne Competition for young mathematicians in Russia, Ukraine and Belarus

US-NTSA Award for Ukrainian Mathematicians

Departmental Activities

Head, Seminar “Groups and Dynamics”

Member, PhD Committees

Powell Chair Committee

FIELDS of INTEREST

Group Theory, Dynamical Systems, Low dimensional Topology, Discrete Mathematics,
Abstract Harmonic Analysis, Random Walks, Invariant Means,
Bounded Cohomology, L^2 -invariants.

ADVISOR, MENTOR AND CO-MENTOR FOR:

(Co-mentor) L. Beklaryan (habilitation, current affiliation: Russian Academy of Sciences Central Economics and Mathematics Institute, Moscow, professor)

(Co-mentor) V. Nekrashevych, (habilitation, current affiliation: Texas A&M University, full professor)

(Co-mentor) A. Vdovina (habilitation, current affiliation: University of Newcastle upon Tyne, professor)

(Co-mentor) L. Bartholdi (Ph.D., current affiliation: Lausanne Swiss Polytechnic Institute of Mathematics "B", assistant professor)

(Co-mentor) T. Nagnibeda (Ph.D., current affiliation: Universite de Geneve, assistant professor)

(Co-mentor) R. Mikhailov (Ph.D., current affiliation: Steklov Institute of Mathematics, Moscow, researcher)

(Co-mentor) E. Pervova (Ph.D., current affiliation: Chelyabinsk State University, Russia, associate professor; "Marie Curie Incoming International Fellowship", Italy)

(Co-mentor) Yu. Leonov (Ph.D., current affiliation: Odessa State University, Ukraine, associate professor)

(Co-mentor) I. Lysionok (M.S., current affiliation: Steklov Institute of Mathematics, Moscow, leading researcher)

(Co-mentor) A. Bufetov (M.S., current affiliation: Rice University, Houston, assistant professor)

(Co-mentor) A. Zuk (Ph.D., current affiliation: Institut de Mathématiques, Université Paris 7, professor)

(Co-mentor) T. Ceccherini-Silberstein (Ph.D., current affiliation: Università degli Studi del Sannio, assistant professor)

R. Zatorskii, Co-mentor for Ph.D., mentor for Habilitation (in progress), (Precarpathian National University of Vasil Stefanik, Ukraine, associate professor)

I. Kirchey, Co-mentor for Ph.D. Current affiliation: Lviv National University of Ivan Franko, Ukraine, lecturer)

A. Boltenev (M.S.) (working in the computer company but the exact affiliation is unknown)

(Co-mentor) T. Vovkivskii (M.S.) (working in the computer company but the exact affiliation is unknown)

I. Bondarenko (Ph.D.) (current affiliation: Kyiv National Taras Shevchenko University, Ukraine, assistant professor)

Y. Muntyan (Ph.D.) (current affiliation: Microsoft)

D. Savchuk (Ph.D.) (current affiliation: Binghamton University)

R. Kravchenko (Ph.D.) (current affiliation: Paris 11, Orsay)

Current Ph.D. students

Mustafa Benly
Dilber Kocak

Current undergraduate research student

Derek Allums

Postdoctoral scholars

Y. Vorobets (current affiliation: Texas A&M University, associate professor)

M. Vorobets (current affiliation: Texas A&M University, lecturer)

B. Petrenko (current affiliation: SUNY, Brockport, assistant professor)

J. Belk (current affiliation: Texas A&M University, visiting assistant professor)

(Co-mentor) P. Nowak

(Co-mentor) F. Dahmani (current affiliation: Université Paul Sabatier, Toulouse, Maitre de Conérence)

C. Thomas (current affiliation: Massachusetts College of Liberal Arts, North Adams, assistant professor)

(Co-mentor) D. D'Angeli

(Co-mentor) A. Donno

INVITED PROFESSOR at

MSRI Berkeley	1989, 2000
Max-Planck Institute, Bonn	1988, 1990, 1994, 1999, 2003, 2006
Columbia University, New York	1991
University of Manitoba	1990
University of Geneva	1995, 1996, 1997, 1998, 1999, 2000, 2002, 2003
University of Rome "La Sapienza"	1992, 1994, 1996, 1999, 2002
Hebrew University of Jerusalem	1996, 2000
Ecole Normale Superieure, Lyon	1996, 2002
ETH Zurich	1997, 1999
IHES, Paris	1998
University of Neuchatel	1998
Royal Institute of Technology, Stokholm	1999
University of Birmingham	2001
The Institut Henri Poincare, Paris	2006
The Institute of Mathematics, Auckland	2007
Isaac Newton Institute for Mathematical Sciences, Cambridge	2007
The Erwin Shrodinger Institute for Mathematical Phycs, Vienna, Austria	2007
University of Geneva, Geneva	2008
IHÉS, Bures-sur-Yvette	2008
Paris 11, Orsay	2011

PLENARY and INVITED TALKS AT CONFERENCES

International Congress of Mathematics, Kyoto	1990
Meeting of the London Mathematical Society	1993
Meetings in Oberwolfach	1991,1993, 1995, 1999, 2001
<i>International Conferences in Algebra, Analysis and Probability:</i>	
National Algebraic Conference, Minsk, Belorussia	1983
National Algebraic Conference, Kishinev, Moldova	1985
National Algebraic Conference, Lvov, Ukraine	1987
International Algebraic Conference in memory of Malcev, Novosibirsk	1989
International Conference in memory of Shirshov, Barnaul	1992
Conference in Group Theory, Edinburgh, UK	1993, 1998
Conference in Profinite Groups, Durham, UK	1994, 1996
Algebra and Topology Conference dedicated to the 60-th birthday of H. Zieshang, Bochum, Germany	1996
European Summer School on Geometric Group Theory, Crete, Greece	1996
St. Andrews Group Theory Conference, Bath, UK	1997
Euroconference Group Theory: From Finite to Infinite, Castelvecchio Pascoli, Italy	1997

International Conference in memory of Gluskin, Slaviansk, Ukraine,	1997
Combinatorial Group Theory, McGill University, Montreal	1997
International Algebraic Conference in memory of Kurosh, Moscow	1998
International Conference in memory of Pontryagin, Moscow	1998
Discrete Groups and Lattices, Bielefeld, Germany	1999
“On branch groups”, Conference on group theory MSRI, Berkeley, CA, USA	January 2000
“Asymptotic properties of branch groups”, Conference on Asymptotic group theory, Jerusalem, Israel	April 2000
“Ideas and problems of the theory of branch groups”, Haifa, Israel	May 2000
“Groups generated by finite automata”, Conference on groups and semigroups, Lincoln, NE, USA	June 2000
“On the spectrum of the lamplighter group”, Conference on L^2 -invariants, Münster, Germany	June 2000
“Probabilities on groups and the Atiyah Conjecture”, Probabilistic methods in Group Theory, New York	December 2000
“Invariant means and growth”, North British Workshop on Functional Analysis, Edinburgh	May 2001
“Invariant means and spectra”, North British Workshop on Functional Analysis, Edinburgh	May 2001
“From fractal groups to fractal sets”, Conference Fractal in Graz, Graz, Austria,	June 2001
“Spectral theory of graphs related to fractal groups”, Conference Random Walks, Vienne, Austria	July 2001
“Spectra of fractal groups and and Schreier graphs”, Conference on Functional Analysis, Kyiv, Ukraine	September 2001
“Groups generated by finite automata and the Atiyah conjecture”, Algebraic Conference, Kyiv, Ukraine	September 2001
“From fractal groups to fractal sets”, Frontiers in Mathematics, Texas A&M University, College Station, TX	October 2001
“Random walks on groups and the Atiyah conjecture on L^2 -Betti numbers”, Frontiers in Mathematics, Texas A&M University, College Station, TX	October 2001
“Growth in groups and amenability”, Frontiers in Mathematics, Texas A&M University, College Station, TX	October 2001
“Invariant means and growth”, North British Functional Analysis Seminar	2001
“Automata groups - other direction and open problems”, Workshop (Rencontres Mathematiques) on Groups of Automata, Lyon, France	May 2002
“Algorithmic problem for branch groups”, Discrete Groups and Geometric Structures, with Applications, at K.U. Leuven Campus Kortrijk, Belgium	May 2002
“Groups generated by finite automata and amenability”	

Workshop on Groups and Model Theory at Mons-Hainaut University, Belgium	May 2002
“Analysis on graphs arising from fractal groups”	
Conference on Analysis on Graphs and Metric Spaces, Paris, France	June 2002
“Fractal groups generated by finite automata arising in holomorphic dynamics”	
Conference on Analysis and Probability on Fractals, Cornell University, Ithaca NY	June 2002
“On spectral problems and two-dimensional dynamical systems associated with some self-similar structures”,	
Waves in Periodic and Random Media, Mount Holyoke College, South Hadley, MA	June 2002
“Quasiregular representations of branch groups and Gelfand Pairs”	
Conference in Harmonic Analysis organized by University of Rome ”Tor Vergata” and University of Bari, Island Tremini, Italy	June 2002
“Algorithmic problems and presentations of groups generated by finite automata”	
International Conference on Semigroups and Groups in Honor of the 65th Birthday of John Rhodes, Porto, Portugal	June 2002
“The Ihara zeta function, the KNS spectral measure and integrable maps”,	
Conference on Dynamical Systems in memory of V.A. Alekseev, Moscow	December 2002
International Conference on Group Theory: combinatorial, geometric and dynamical aspects of infinite groups, Italy	June 2003
Probability in Mathematics. In Honor of Hillel Furstenberg, Israel	June 2003
Kolmogorov and Contemporary Mathematics. Moscow, Russia	June 2003
Groups and Probability. Budapest, Hungary	2003
Algebra day in Ottawa, Canada	September 2003
“On the friendly competitor of Thomson groups”,	
40 Years of Thompson Groups, Palo Alto, California	January 2004
“A minimality property of certain branch groups”,	
G^3 Geometric Groups Theory on the Gulf Coast, Mobile, Alabama	February 5-8, 2004
“Branch groups and spectral theory”, Conference on L^2 -Invariants, Measure Theory and Geometric Group Theory, Munster, Germany	March 2004
“Kolmogorov Complexity, Growth and Algorithmic Problems”,	
AMS meeting, Athens, Ohio	March 2004
“Groups of branch type and finitely presented groups”,	
Topological Fest., Cornell	May 2004
“The Ihara zeta function for infinite graphs”,	
Analysis and Geometry on Random Structures, Lille, France,	May 24-28, 2004
“Branch groups and Kolmogorov complexity ”,	
250 anniversary of Moscow University, Jerusalem, Israel	June 2004
“Groups, finite automata and spectra, LMS Northern regional meeting”,	
Newcastle, England	June 2004
“Kolmogorov complexity, amenability and growth in groups”,	
Workshop on Group Theory, Newcastle, England	June 2004
“The development of amenability in the past 50 years”,	
Geometric group theory, Random walks and Harmonic Analysis, Cortona, Italy	June 2004
“Automata groups and dynamics on trees”,	

Advanced Course on Automata Groups, Barselona, Spain	July 2004
“Algorithmic problems for branch groups”, University of Geneva, Switzerland	September 2004
“Algorithmic problems for branch groups and groups generated by finite automata”, Albany Group Theory Conference, Albany, New York	October 2004
“Presentations of automata groups and subgroups in direct products”, AMS Meeting, Nashville, Tennessee	October 2004
“Algebraic, algorithmic, and spectral properties of automata groups”, CMS Meeting, Montreal, Canada	December 2004
“Kaplanskii problem on Jacobson radical”, Talk at Algebra seminar at University of California in San Diego	March 2005
“Amenability and Self-similar groups” at special section ‘Discrete groups’ at AMS meeting in Lubbock, Texas	April 2005
“Spectra of groups, graphs and amenability”, Probability and Mathematical Physics, Conference dedicated to S.Molchanov, Montreal, Canada	June 2005
“Branchness and self-similarity in group theory”, 5-th International Algebraic Conference, Odessa, Ukraine	July 2005
“On self-similarity and branchness in group theory”, Groups St. Andrews, St. Andrews, UK 2005	July-August 2005
“C*-algebras related to self-similar groups and asymptotic Ramanujan graphs”, Operator Algebras and Mathematical Physics, Bucharest, Romania	August 2005
“Hanoi Towers groups”, Topological and Geometric Methods in Group Theory, Oberwolfach, Germany	April 2006
“Hanoi Tower Groups and Schreier Graphs”, Combinatorial and geometric group theory, Nashville, Tennessee	May 2006
“Hanoi Towers Groups and spectral analysis”, The 10-th Midrasha in Asymptotic Group Theory, Jerusalem, Israel	May 2006
“Profinite Self-Similar Groups”, Pro-p Extensions of Global Fields and pro-p Groups, Oberwolfach, Germany	May 2006
“The spectrum of Hanoi Towers game on three pegs”, Noncommutative and Matrix valued Analysis, Institut Henri Poincare, Paris, France	June 2006
“Spectral analysis of Ukranian automatic groups and semigroups”, P vs NP Workshop, University of California, Berkeley	June 2006
“Amenability, Liouville property and ergodicity of boundary actions”, Semi-annual Workshop in Dynamical Systems and Related Topics, Penn State University	October 2006
“Discrete amenable groups – a survey”, Amenability of Groups and Algebras, Canberra, Australia	January 2007
“The Spectra of Schreier Graphs of Self-similar Groups and Dynamics of Multidimensional Rational Mappings 1 and 2”, Partial Differential Equations: Analysis, Applications, and Inverse Problems, Copthorne Waitangi Resort, New Zealand	January 2007
“On classification of groups generated by finite automata and some questions of analysis related to such groups”, Winter School “Methods of Algebra and Analysis in Contemporary Mathematics”, Chernivtsi, Ukraine	February 2007

- “Amenability, branchness and Hanoi towers game”, Meeting of Kyiv Mathematical Society,
Kyiv, Ukraine February 2007
- “The beginning of the Atlas of self-similar groups”, Totally Disconnected Groups,
Graphs and Geometry Workshop, Heinrich-Fabri-Institut Blaubeuren, Germany May 2007
- “On Brian Hartley question about maximal subgroups in branch groups”, Antalya Algebra Days IX,
Antalya, Turkey May 2007
- “Schur Complement and Schreier graphs”, Analysis on Graphs and Applications,
Cambridge, UK June 2007
- “Non-elementary amenability and nonamenability” (two talks), Workshop on Algebraic,
Geometric and Probabilistic Aspects of Amenability, Vienna, Austria June 2007
- “On Dehn functions of infinitely presented groups”, Profinite and
asymptotic group theory, Levico Terme, Italy September 2007
- “On Dehn functions of infinitely presented groups”, Conference Dedicated
to the 100-th Anniversary of W. Magnus, New York September 2007
- “Self-similar groups, operator algebras and Schur complement”,
XXVIII Congress in Harmonic Analysis, Perugia, Italy May 2008
- “Self-similar groups, operator algebras and Shur complements”, International Conference
“Differential Equations and Topology” Dedicated to the Centennial Anniversary
of L.S. Pontryagin, Moscow State University, Moscow, Russia June 2008
- “On subgroup structure of a 3-generated 2-group of intermediate growth”,
Profinite and Asymptotic Group Theory, Oberwolfach, Germany June 2008
- “The beginning of the classification of self-similar groups”, Group theory and complexity,
Steklov Mathematical Institute, Moscow, Russia July 2008
- “On Dehn functions of infinite presentations of groups”, Geometric and Asymptotic
Group Theory with Applications, Stevens Institute of Technology March 2009
- “Ergodic properties of boundary actions, growth and Nielsen-Schreier theory”,
Group Theory, Number Theory and Geometry Conference on the occasion of
Fritz Grunewald’s 60th Birthday, Oxford April 2009
- “Hanoi Tower game and self-similar groups”, Joint Meeting of the 61st British
Mathematical Colloquium and the 22nd Annual Meeting of the Irish Mathematical Society,
National University of Ireland Galway April 2009
- “Ergodic properties of boundary actions and Nielsen-Schreier theory”,
International Conference on Geometric and Combinatorial Methods in Group Theory
and Semigroup Theory, University of Nebraska, Lincoln May 2009
- “Development of the theory of amenable groups in the last 80 years”, the Conference
Dedicated to 75-th Anniversary of Steklov Mathematical Institute, Moscow, Russia June 2009
- “The paradoxical and non-paradoxical in group theory and the Hanoi Towers game”,
Groups and Models: Cherlin Bayrami, Bilgi University, Istanbul June 2009
- “Ergodicity of boundary action, Hopf decomposition and Schreier-Nielsen method”,
Dynamical Numbers: Interplay between Dynamical Systems and Number Theory,
Max Planck Institute for Mathematics, Bonn June 2009
- “The theory of amenability in the past 80 years and Bogolyubov’s contribution to it”,
Ukrainian Congress of Mathematicians dedicated to 100-th of birthday of

N.N.Bogolyubov, Kyiv, Ukraine	August 2009
“Ergodic properties of boundary actions, Hopf decomposition and Nielsen-Schreier theory”, Texas Geometry and Topology Conference, Rice University	November 2009
“Torsion images of Coxeter groups and Wiegold problem”, Geometry, Topology and Computation in Groups, Diablerets, Switzerland	March 2010
“Torsion images of Coxeter groups”, Groups and Their Actions, Bedlewo, Poland	August 2010
“Wiegold problem and Torsion images of Coxeter groups”, Actions and Invariants of Residually Finite Groups: Asymptotic Methods, Oberwolfach, Germany	September 2010
“Torsion images of Coxeter groups and Wiegold problem”, Rome, Italy	September 2010
“Free vs nonfree actions of self-similar groups”, Workshop on Group Actions and Dynamics, Montreal, Canada	October 2010
“On Wiegold problem”, Groups and Dynamics, Santiago, Chile	December 2010
“On Milnor’s problem of growth of groups”, Frontiers in Complex Dynamics, Banff, Canada	February 2011
“Free vs. nonfree actions on a boundary of a rooted tree and a Schreier dynamical systems”, Group Actions on Probability Spaces, Texas A&M University, College Station, TX	March 2011
“Manifestations of the Lamplighter”, Topology Festival, Cornell University	May 2011
“The algebraic aspects of amenability”, Conference on Algebra and Applications in honor of Prof. Said Sidki, Caldas Novas, Brazil	May 2011

Colloquium Talks

“Spectra of fractal groups and the Atiyah Conjecture”, University of Nebraska, Lincoln	March 6, 2003
“Spectra of Groups and Graphs and the Atiyah Conjecture”, University of California, San-Diego	March 10, 2003
“Spectra of fractal groups and the Atiyah Problem”, Rice University, Houston	April 3, 2003
“The Ihara zeta function of infinite graphs, the KNS spectral measure and integrable maps”, Vanderbilt University, Nashville	April 14, 2003
“The spectra of groups generated by finite automata and the Atiyah Conjecture on L^2 -Betti numbers”, University of Illinois, Urbana-Champaign	October 30, 2003
“Spectra of Groups Generated by Finite Automata”, Eastern Illinois University, Charleston	October 31, 2003
“Spectra of groups and dynamical systems”, Penn. State University	April 2004

“Groups of intermediate growth and dynamics”, Stony Brook, New York	May 2004
“Algebraic and spectral properties of groups generated by finite automata”, Virginia Polytechnic Institute	October 2004
“Ihara zeta function for infinite graphs and groups”, University of California in San Diego	March 17 2005
“Hanoi towers groups and asymptotic characteristics of Schreier graphs”, University of Wisconsin, Madison	February 2006
“Spectral properties of Hanoi towers groups”, University of Marseille 1, France	June 2006
“Serre Property (FA) and homomorphic images of branch groups”, University of Florida, Gainesville	December 2006
“Amenability, branching and Hanoi Towers game”, Rice University, Houston	February 2007
“The beginning of the Atlas of self-similar groups”, Indiana University Purdue University Indianapolis, Indianapolis	November 2007
“Hanoi Tower game and self-similar groups”, University of Texas, Austin	March 2009
“Hanoi Tower game and self-similar groups”, The 61st British Mathematical Colloquium & 22nd Annual Meeting of the Irish Mathematical Society, Galway, Ireland	April 2009
“Amenable groups and growth”, Indiana University Bloomington	November 2010
“Algebraic aspects of growth in algebra”, Ottawa University, Canada	March 2011
“Algebraic and combinatorial aspects of amenability”, Binghamton University, Binghamton, NY	May 2011
“Manifestations of the Lamplighter”, Topology Festival, Cornell University	May 2011

CONFERENCE ORGANIZING COMMITTEES

Special Meeting of Moscow Mathematical Society in honor of the 60-th Anniversary of D.V. Anosov, Moscow, Russia	1996
International Conference in Memory of Glushkin, Slaviansk, Ukraine	1997
International Conference in Group Theory, Edinburgh, UK	1998
International Conference in Memory of Pontryagin, Moscow, Russia	1998
International Conference on Functional Analysis, Kyiv, Ukraine	2001
International Conference on Group Theory, Uzhgorod, Ukraine	2001
Workshop on Groups of Automata (Rencontres Mathematiques), Lyon, France	2002
International Algebraic Conference, Lviv, Ukraine	2003
Advanced Course on Automata Groups, Barcelona, Spain	2004
Geometric and Asymptotic Methods in Group Theory, Banff, Canada	2005
5-th International Algebraic Conference in Ukraine, Odesa, Ukraine	2005
Geometric and Probabilistic Methods in Group Theory and Dynamical Systems,	

College Station, TX	2005
Self-similar Groups, Palo Alto, California	2006
Winter School “Methods of Algebra and Analysis in Contemporary Mathematics”, Chernivtsi, Ukraine	2007
Analysis on Graphs and Fractals, Cardiff, United Kingdom	2007
6-th International Algebraic Conference in Ukraine, Kamyanets-Podilsky, Ukraine	2007
Conference Dedicated to the 100-th Anniversary of W. Magnus, New York	2007
Groups and dynamics, one day workshop, Texas A&M University, College Station, Texas	2007
Groups generated by Automata, Ascona, Switzerland	2008
Workshop on Group Theory and Dynamical Systems, Diableret’s, Switzerland	2008
AMS Special Session on Group Theory, First Joint International AMS Meeting with the Sociedade Brasileira de Matematica, Rio de Janeiro, Brazil	2008
Differential equations and topology. International Conference dedicated to the 100-th Anniversary of L. Pontryagin, Moscow, Russia	2008
Group Theory and Complexity, Steklov Institute, Moscow, Russia	2008
Self-Similarity and Branching in Group Theory, Banff, Canada	2008
Special session at the First International Meeting of the AMS and the Sociedad de Matematica de Chile, Universidad de la Frontera in Puco’n, Puco’n, Chile	2011
Dynamic systems, nonlinear analysis and their applications, Yerevan, Armenia	2011

ORGANIZER OF SEMINARS

Seminar in group theory (Moscow State University of Transportation, 1986–1995).

Seminar in geometric group theory (Steklov Mathematical Institute, Moscow, 1995–2002).

Seminar on dynamical systems and ergodic theory (Moscow State University of Lomonosov, 1995–2002, co-chair with D.Anosov and A.Stepin).

Groups and Dynamics Seminar (Texas A&M University, College Station, 2002–present).

PUBLICATIONS of R. GRIGORCHUK

Books

- [1] (with J. Collins, P. Kurchanov, H. Zieshang) *Combinatorial Group Theory and Applications to Geometry*, Springer Verlag, Berlin (1998).
- [2] (with D. Segal, A. Shalev, du Sautoy and others) *New Horizons in pro-p Groups*, Birkhäuser (2000).
- [3] *Solved and Unsolved Problems Around One Group*, in *Infinite Groups: Geometric, Combinatorial and Dynamical Aspects*. Progress in Mathematics Series, Vol. 248. Bartholdi, L.; Ceccherini-Silberstein, T.; Smirnova-Nagnibeda, T.; (Eds.). 2005, 413 p., Hardcover A Birkhauser book. 117–218.
- [4] (in preparation) (with Z. Sunik) *Branch Groups and its Applications*

Articles published in refereed journals and conference proceedings

- [5] *Symmetric random walks on discrete groups*, Russian Mathematical Surveys, **32** (1977) 217-218.
- [6] *Symmetric random walks on discrete groups*, in: *Multicomponent random systems*, ed. R.L. Dobrushin and Ya.G. Sinay, Nauka, Moscow (1978) 132-152.
- [7] *Invariant measures on homogeneous spaces*, Ukrainian Math. Journal **31**, No 5 (1979) 490-497.
- [8] (with A.M. Stepin) *On hierarchy coding of stationary sources* Proceedings of the 7-th Conference on theory of coding and information transmission, Chapter 1, Vilnyus (1978) 41-46.

- [9] (with A.M. Stepin) *Gibbs states and Markovian fields on groups*, in: Mathematical models of statistical physics, Tyumen (1982).
- [10] *On the Burnside problem on periodic groups*, Funkts. Anal. Prilozen. **14**, No 1 (1980) 53-54.
- [11] (with A.M. Stepin) *On coding of Markovian sources*, in: Ergodic Theory and Related Topics, Akademie Verlage, Berlin (1982).
- [12] *Milnor Problem on group growth and theory of invariant means*, Abstracts of ICM in Warsaw, (1982).
- [13] *On Milnor's problem on group growth*, Soviet Math. Dokl. **28**, No 1 (1983) 23-26.
- [14] *The growth degrees of finitely generated groups and the theory of invariant means*, Math. USSR Izv **48**, No 5 (1984) 939-985.
- [15] *The construction of p -groups of intermediate growth having continuum factor groups*, Algebra i Logika **23**, No 4 (1984) 383-394.
- [16] (with A.M. Stepin) *Gibbs states on countable groups*, Teoriya Veroyat. Prilozen. **2** (1984).
- [17] *On the growth of finite automata over iterations*, USSR Conference on Applied Logic, Novosibirsk, Abstracts (1985).
- [18] *On periodic groups generated by finite automata*, 18-th USSR Algebraic Conference, Kishinev, Abstracts (1985).
- [19] *A connection between algorithmic problems and entropy characteristics of groups*, Soviet Math. Dokl. **284**, No 1 (1985) 24-29.
- [20] *On the growth degrees of p -groups and torsion-free groups*, Mat. USSR Sbornik, **126**, No 2 (1985) 194-214.
- [21] *Recursively presented residually finite p -groups of intermediate growth with unsolvable word problem*, USSR conference on Mathematical Logic, Moscow (1986).
- [22] *Superamenability and the problem of embedding of free semigroups*, 10-th USSR Symposium on Group Theory, Gomel, Abstracts (1986).
- [23] *Superamenability and the problem of embedding of free semigroups*, Funktz. Anal. Prilozen. **21**, No 1 (1987) 74-75.
- [24] *Individual Ergodic Theorem for the actions of the free group*, 12-th Workshop on Theory of Operators in Functional Spaces, Tambov, Abstracts **1** (1987).
- [25] *On Zassenhaus filtration in groups of intermediate growth and on Golod-Shafarevich series*, 19-th USSR Algebraic Conference, Lvov, Abstracts (1987).
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