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Scientific interests

○ Additive Combinatorics
○ Number Theory
○ Combinatorial and Ergodic Number Theory
○ Combinatorial Ergodic Theory

Themes of research

○ Multi–dimensional generalizations of Szemerédi's theorem
○ Exponential sums and Fourier analysis
○ Sum–product phenomenon
○ Inverse theorems in additive combinatorics
○ Uniformly distributed sequences
○ Continued fractions
○ Ordinary and multiple recurrence

Education

- Second Russian Scientific Degree   June 17, 2009
  (Doctor fisiko–matematicheskih nauk)

- PhD in Mathematics.   May 20, 2005
  Thesis "On some problems of ergodic number theory".
  Advisor: Prof. N. G. Moshchevitin.

- Master of Science in Pure and Applied Mathematics   June 25, 2002
  Moscow State University, Moscow, Russia.

- Moscow State University, Moscow, Russia   1997–2002

Positions held

- Main Researcher of Steklov Mathematical Institute   June 1, 2017–now
- Full Professor of Division of Dynamical Systems, MSU   September, 2010 –now
- Full Professor of Division of Discrete Mathematics , MIPT   2015 –now
- Leading Researcher of IITP RAS   December, 2009–now
- Correspondent Member of Russian Academy of Science   2016–now
- Leading Researcher of Steklov Mathematical Institute   April, 2010 — May, 2017
- Associate Professor of Division of Dynamical Systems, MSU   April, 2010 — September, 2010
- Assistant Professor of Division of Dynamical Systems, MSU   January 1, 2006 — April, 2010

Short Term Positions

- Postdoc, MSRI, Berkeley   2008
  Term "Dynamical Systems and Additive Combinatorics".

- Postdoc, IAS, Princeton   2007
  Term of Arithmetic Combinatorics.

- Consultant, Microsoft Research, Seattle   February–March, 2016
- Consultant, Microsoft Research, Mountain View   January–February, 2013
           January–February, 2012
           January, 2011
           November–December, 2010

Teaching

- Ordinary differential equations   2006–now
  MSU

- Szemerédi's Theorem and Fourier analysis   2006–now
  MSU, special course.

- Additive combinatorics   2014–now
  Yandex

- Higher Sumsets, Higher Energies, Eigenvalues and Applications to Additive Combinatorics and Number Theory   2015
  Academy of Mathematics and Systems Science & Henan University, minicource in additive combinatorics.

- Higher sumsets, higher energies, eigenvalues and applications   2015
  Chalmers & Göteborg university, minicource in additive combinatorics

- Introduction to additive combinatorics   2013–2014
  SUNC MSU, special course.

- Introduction to additive combinatorics   2012
  Independent University of Moscow, special course.

- Some problems of additive combinatorics   2011–2012
  MSU, special course.

- Green and Tao's theorem on arithmetic progressions   2004
  Independent University of Moscow, special course.

- Arithmetic progressions   2005
  MSU, special course.

- Moscow secondary school N 17   2006–2007
  2010–2011

- Moscow secondary school N 1134   2002–2005

Grants and prizes

- The best scientific paper of Steklov Mathematical Institute, 2011/2014/2018.

- P. Deligne's grant 2007 (based on Balsan's fond 2004).

Leader of

- President's of Russian Federation grant MK-1726.2006.1 and MK-1959.2009.1.

- Grant mol_a_ved 12-01-33080.

- Grant Russian Scientific Fond 14-11-00433.

- RFFI grant no. 11-01-00759.

Participant of

I am an editor of journals :
- Uniform Distribution Theory
- Online Journal of Analytic Combinatorics
- Moscow Journal of Combinatorics and Number Theory
- Transactions of the Moscow Mathematical Society

Publications

81. *On growth rate in $SL_2(\mathbf{F}_p)$, the affine group and sum-product type implications,* (with Misha Rudnev), submitted, http://arxiv.org/abs/1812.01671.

80. *Breaking the 6/5 threshold for sums and products modulo a prime,* (with George Shakan, Misha Rudnev), submitted; arXiv:1806.07091.

79. *A short note on the multiplicative energy of the spectrum of a set,* Mat. Zametki, accepted; arXiv:1805.10468.

78. *On the restriction problem for discrete paraboloid in lower dimension,* (with M. Rudnev), Advances in Mathematics, 339 (2018), 657–671; DOI: 10.1016/j.aim.2018.10.002.

77. *Double character sums with intervals and arbitrary sets in finite fields,* (with I.E. Shparlinski), Proc. Steklov Inst., accepted.

76. *On asymptotic formulae in some sum–product questions,* Tran. Moscow Math. Soc, **79**:2 (2018), 271–334; English transl. Trans. Moscow Math. Society 2018, pp.231–281.

75. *On the size of the set $AA + A$,* (with Oliver Roche-Newton, Imre Z. Ruzsa, Chun-Yen Shen), accepted.

74. *On the few products, many sums problem,* (with Brendan Murphy, Misha Rudnev, Yurii N. Shteinikov), submitted.

73. *On subgraphs of random Cayley sum graphs,* (with S.V. Konyagin), European Journal of Combinatorics, Volume 70 (2018) 61–74.

72. *Some remarks on the asymmetric sum–product phenomenon,* MJCNT, **8**:1 (2019) 15–41; dx.doi.org/10.2140/moscow.2019.8.15.

71. *Packing sets over finite abelian groups,* (with Oliver Roche-Newton, Arne Winterhof), Integers 18, (2018) 1–9.

70. *Variations on the sum–product problem II,* (with Brendan Murphy, Oliver Roche-Newton), SIAM J. Discrete Math. 31 (2017), no. 3, 1878–1894.

69. *Any small multiplicative sugroup is not a sumset,* submitted.

68. *New results on sum-product type growth over fields,* (with Brendan Murphy, Giorgis Petridis, Oliver Roche-Newton, Misha Rudnev), accepted.

67. *Multiplicative Energy of Shifted Subgroups and Bounds On Exponential Sums with Trinomials in Finite Fields,* (with S. Macourt, I.E. Shparlinski) Canadian Journal of Mathematics **70**:6 (2018) 1319–1338; http://dx.doi.org/10.4153/CJM-2017-044-2.

66. *An upper bound for weak B_k–sets,* (with T. Schoen), submitted.

65. *On some multiple character sums,* (with I.E. Shparlinski), Mathematica, **53**:2 (2017) 553–560; doi:10.1112/S0025579317000055.

64. *An application of the sum-product phenomenon to sets having no solutions of several linear equations,* Sbornik: Mathematics, **209**:4 (2018) 117–142; https://doi.org/10.1070/SM8907.

63. *On the energy variant of the sum–product conjecture,* (with M. Rudnev, S. Stevens) , Revista Matemática Iberoamericana, accepted.

62. *On additive bases of sets with small product set,* (with D. Zhelezov), International Mathematics Research Notices 2018:5, 1585–1599; https://doi.org/10.1093/imrn/rnw291.

61. *Sums of multiplicative characters with additive convolutions,* (with A.S. Volostnov), Proceedings of the Steklov Institute of Mathematics, **296** (2017) 265–279.

60. *A remark on $A + B$ and $A - A$ for compact sets in $\mathbb{R}^n$,* (with T. Schoen), Integers #A75 **16** (2016) 1–4.

59. *Some remarks on the Balog–Wooley decomposition theorem and quantities D^+, $D^\times$,* Proceedings of the Steklov Institute of Mathematics **298**:1 (2017), 74–90.

58. *Some remarks on sets with small quotient set,* Sbornik: Mathematics, **208**:12, (2017) 144–158; https://doi.org/10.1070/SM8733.

57. *New results on sum-products in $\mathbb{R}$,* (with S.V. Konyagin), Proceedings of the Steklov Institute of Mathematics, 294, (2016), 87–98.

56. *Difference sets are not multiplicatively closed,* Discrete Analysis, 17, (2016), 1–21. DOI: 10.19086/da.913.

55. *Growth Estimates in Positive Characteristic via Collisions,* (with E. Aksoy Yazici, B. Murphy, M. Rudnev), International Mathematics Research Notices, Volume 2017, Issue 23 (2017), 7148–7189, https://doi.org/10.1093/imrn/rnw206

54. *Differences of subgroups in subgroups,* International Journal of Number Theory Vol. 14, No. 4 (2018) 1111–1134; DOI: 10.1142/S1793042118500690

53. *On some problems of Euclidean Ramsey theory,* Analysis Mathematica, **41** (2015), 1–12; DOI: 10.1007/s10476-015. Also, see Analysis Math., **42**:3 (2016), 295. DOI: 10.1007/s10476-016-0305-8.

52. *On the number of unit–area triangles spanned by convex grids in the plane,* (with Orit E. Raz, Micha Sharir), Computational Geometry: Theory and Applications, volume 62, issue 1, (2017) 25–33; http://dx.doi.org/10.1016/j.comgeo.2016.12.002

51. *On tripling constant of multiplicative subgroups,* Integers #A75 **16** (2016) 1–9.

50. *On sum sets of sets, having small product sets,* (with S.V. Konyagin), Proceedings of the Steklov Institute of Mathematics, **3**:290 (2015), 304–316.

49. *On a question of A. Balog,* Pacific Journal of Mathematics, **280**:1 (2015), 227–240; dx.doi.org/10.2140/pjm.2015..101.

48. *Kolmogorov Width of Discrete Linear Spaces: an Approach to Matrix Rigidity,* (with A. Samorodnitsky & S.Yekhanin), CCC, (2015), 1–18; DOI: 10.4230/LIPIcs.CCC.2015.p; ISSN 1433-8092.

47. *On sums of Szemerédi–Trotter sets,* Proceedings of the Steklov Institute of Mathematics, **289**, (2015), 300–309.

46. *Structural theorems in Additive Combinatorics,* Uspekhi Mat. Nauk, v.70 **421**:1 (2015), 46–99; English transl. Russian Math. Surveys **70**:1 (2015) 123–178.

45. *New sum–product type estimates over finite fields,* (with O. Roche–Newton & M. Rudnev), Advances in Mathematics, **293** (2016), 589–605.

44. *Energies and structure of additive sets,* Electronic Journal of Combinatorics, **21**:3 (2014), #P3.44, 1–53.

43. *On the additive energy of Heilbronn's subgroup,* (with E. Solodkova, I. Vyugin), Mat. Zametki, **101**:1 (2017), 43–57; English transl. Mat. Zametki, **101**:1 (2017), 58–70.

42. *Intersections of Shifts of Multiplicative Subgroups,* (with E. Solodkova, I. Vyugin), Mat. Zametki, **100**:2 (2016), 185–195; English transl. Mathematical Notes, **100**:2 (2016), 189–198.

41. *Additive dimension and a theorem of Sanders,* (with T. Schoen), J. Aust. Math. Soc., **100**:1 (2016), 124–144; doi:10.1017/S1446788715000324.

40. *On Wiener norm of subsets of $\mathbf{Z}_p$ of medium size,* (with S.V. Konyagin), Fund. and Applied Math., **19**:5 (2014), 75–87.

39. *Quantitative version of Beurling–Helson theorem,* (with S.V. Konyagin), Function Anal. & Appl., **49**:2, (2015), 39–53.

38. *Variations on the sum-product problem,* (with B. Murphy & O. Roche–Newton), SIDMA, Vol. 29, No. 1, (2015), 514–540.

37. *On exponential sums over multiplicative subgroups of medium size,* Finite Fields Appl., **30** (2014), 72–87.

36. *Sumsets in quadratic residues,* Acta Arith., **164**:3 (2014) 221–244.

35. *Some new results on higher energies,* Transactions of MMS, **74**:1 (2013), 35–73.

34. *On Heilbronn's exponential sum,* Q. J. Math., **64**:4 (2013), 1221–1230; doi: 10.1093/qmath/has037.

33. *Some new inequalities in additive combinatorics,* MJCNT, **3**:2 (2013), 237–288.

32. *Higher moments of convolutions,* (with T. Schoen), J. of Number Theory, **133** (2013), 1693–1737.

31. *Roth's theorem in many variables,* (with T. Schoen), Israel J. Math., **199**:1 (2014), 287–308.

30. *On sumsets of convex sets,* (with T. Schoen), Combin. Probab. Comput. **20** (2011), 793–798.

29. *On additive shifts of multiplicative subgroups,* (with I.V. Vyugin), Mat. Sbornik **203**:6 (2012), 81–100. English transl. Mat. Sb. **203**:6, 81–100 (2012).

28. *Additive properties of multiplicative subgroups of* $\mathbf{F}_p$, (with T. Schoen), Quart. J. Math. **63**:3 (2012), 713–722.

27. *Sets with large additive energy and symmetric sets* (with S. Yekhanin), Journal of Combinatorial Theory, Series A, 118 (2011) 1086–1093.

26. *A note on non–trivial solutions of Vieta system of equations within any normal set* (with A. Fish), preprint.

25. *On Gowers norms of some functions*, Mat. Zametki, **92**:4 (2012), 609–627.

24. *Fourier analysis in combinatorial number theory*, Uspekhi Mat. Nauk, v.5 **393**:3 (2010), 88–144; English transl. Russian Math. Surveys **65**:3 (2010) 513–567.

23. *Some applications of W. Rudins inequality to problems of combinatorial number theory*, Uniform Distribution Theory, **6**:2 (2011), 95–116.

22. *On an inverse theorem for* $\mathbf{U}^3(\square)$-*norm*, Modern problems of mathematics and mechanics, Mathematics, Dynamical systems, v. 4, 2, (2009) 55–127.

21. *On some two–dimensional configurations in dense sets*, preprint.

20. *On monochromatic solutions of some nonlinear equations in* $\mathbf{Z}/p\mathbf{Z}$, Mat. Zametki, **88**:4 (2010), 626–635; English transl. Mathematical Notes, **88**:4 (2010), 40–48.

19. *On a result of J. Bourgain* (with S.V. Konyagin), Ukr. Mat. J., **62**:3 (2010), 332–368.

18. *On sumsets of dissociated sets*, Online Journal of Analytic Combinatorics, **4** (2009), 1–26.

17. *On a two-dimensional analog of Szemerédi's Theorem in Abelian groups*, Izvestiya of Russian Academy of Sciences, **73**:5 (2009), 455–505;

16. *On Sets with Small Doubling*, Mat. Zametki, **84**:6 (2008), 927–947.

15. *Some Examples of Sets of Large Exponential Sums*, Mat. Sbornik, 198, N 12 (2007), 105–140.

14. *On Sets of Large Exponential Sums*, Izvestiya of Russian Academy of Sciences, 72, N 1, 161–182, 2008.

13. *On Sets of Large Exponential Sums*, Doklady of Russian Academy of Sciences **411**:4 (2006),455–459; English transl. Doklady Mathematics **74**:3 (2006), 860–864.

12. *Szemerédi's Theorem and Problems Concerning Arithmetic Progressions*, Uspekhi Mat. Nauk **61**:6 (2006), 111–178. English transl. Comm. Moscow Math. Soc. **61**:6 (2006) 1101–1166.

11. *On Dynamical Systems with Slow Recurrence Time*, Mat. Sbornik **197**:11 (2006), 143–158. English transl. Sbornik: Mathematics **197**:11 (2006), 1697–1712.

10. *On a Generalization of Szemerédi's Theorem*, Proceedings London Math. Soc., **93**:3 (2006), 723–760.

9. *On the multiplicative properties modulo m of numbers with missing digits* (with N.G. Moshchevitin), Mat. Zametki **81**:3 (2007), 385–404. English transl. Mathematical Notes **81**:3–4 (2007), 338–355.

8. *On one Problem of Gowers*, Izvestiya of Russian Academy of Sciences **70**:2 (2006), 176–217; English transl. Izvestiya : Mathematics **70**:2 (2006), 385–425.

7. *On the Piatetzki-Shapiro Normality Criterion for Continued Fractions*, Fundamentalnaya i Prikladnaya Matematika **16**:6 (2010), 177–188. English transl. Journal of Mathematical Sciences Volume 182, Issue 4 (2012), Page 567–575.

6. *On a Generalization of Szemerédi's Theorem*, Doklady of Russian Academy of Sciences **405**:3 (2005), 315–319; English transl. Doklady Mathematics **72**:3 (2005), 899–902.

5. *On one Problem of Gowers*, Doklady of Russian Academy of Sciences **400**:2 (2005), 169–172; English transl. Doklady Mathematics **71**:1 (2005), 46–48.

4. *On the Piatetzki-Shapiro Normality Criterion* (with N.G. Moshchevitin), Mat. Zametki **73**:4 (2003), 577–589; English transl. Mathematical Notes **73**:4 (2003), 539–550.

3. *Some Additive Problems Connected with Exponential Functions*, Uspekhi Mat. Nauk **58**:4 (2003), 165–166; English transl. Comm. Moscow Math. Soc. **58**:4 (2003), 789–799.

2. *Recurrence of Incomplete Quotients of Continued Fractions*, Uspekhi Mat. Nauk **57**:4 (2002), 189–190; English transl. Comm. Moscow Math. Soc. **57**:4 (2002), 819–821.

1. *Recurrence in Mean*, Mat. Zametki **72**:4 (2002), 625–632; English transl. Mathematical Notes **72**:4 (2002), 576–582.

Popular texts (in Russian)

[1] *A few words on applications of Number Theory to Cryptography,* accepted.

External Conferences

○ Pseudo-Randomness and Finite Fields   October 15–19, 2018
Linz, Austria.

○ Additive combinatorics and its applications   August 20–24, 2018
San Jose, USA.

○ 2nd Russian–Hungarian workshop   June 27–29, 2018
Budapest, Hungary.

○ Number Theory Week 2017   September 4–8, 2017
Poznan, Poland.

○ Numbers, forms and geometry   August 21–26, 2017
Sochi, Russia.

○ Vilnius Conference in Combinatorics and Number Theory   July 16–22, 2017
Vilnius, Lithuania.

○ Journées palaisiennes de combinatoire additive   June 29–30, 2017
Paris, France.

○ Conference dedicated to A.A. Karatsuba   May 22–27, 2017
Moscow, Russia.

○ First Russian–Hungarian Workshop on Discrete Mathematics   April 21–23, 2017
Moscow, Russia.

○ 5th International Conference on Uniform Distribution Theory   July 5–8, 2016
Sopron, Hungary.

○ Conference of RAS professors   June 14–16, 2016
Moscow, Russia.

○ Scientific visit   May 10–30, 2016
Poznan', Poland.

○ Additive Combinatorics in Bordeaux   April 11–15, 2016
Bordeaux, France.

○ Dynamics and Graphs over Finite Fields: Algebraic, Number Theoretic and Algorithmic Aspects   March 29–April 2, 2016
Marseille, France.

- Conference dedicated to A.A. Karatsuba   January 28–30, 2016
  Moscow, Russia.

- Chinese–Russian Workshop on Exponential Sums and Sumsets   November 6–12, 2015
  Beijing, China.

- Yu.V.Linnik Centennial Conference   September 14–18, 2015
  St. Petersburg, Russia.

- Additive Combinatorics in Marseille   September 7–11, 2015
  Marseille, France.

- Scientific visit   August 16–30, 2015
  Poznan', Poland.

- Scientific visit   July 27–August 15, 2015
  Budapest, Hungary.

- Number Theory and Dynamics   July 6–10, 2015
  Stockholm, Sweden.

- Journée Arithmétiques   July 5–8, 2015
  Debrecen, Hungary.

- Higher sumsets, higher energies, eigenvalues and applications   April 12–30, 2015
  Göteborg, Sweden.

- Scientific visit   March 22–28, 2015
  Bristol, England.

- Scientific visit   March 8–13, 2015
  St. Petersburg, Russia.

- Conference dedicated to A.A. Karatsuba   January 30–31, 2015
  Moscow, Russia.

- Arithmetic and allied subjects on the banks of the Neva   November 24–28, 2014
  St. Petersburg, Russia.

- Mathematical Methods: Applications to Earth Science   November 15–19, 2014
  Moscow, Russia.

- Conference on Number Theory   November 1–11, 2014
  Hong Kong, China.

- Summit 240   July 7–11, 2014
  Budapest, Hungary.

- Workshop on Extremal Graph Theory   June 6, 2014
  Moscow, Russia.

- Finding Algebraic Structures in Extremal Combinatorial Configurations   May 19–23, 2014
  Los Angeles, USA.

- Unlikely Intersections   February 3–7, 2014
  Marseille, France.

- Workshop on Combinatorics and Number Theory   January 27–February 2, 2014
  Moscow, Russia.
- Conference dedicated to A.A. Karatsuba   January 31, 2014
  'Moscow, Russia.
- Harmonic Analysis and Theory of Functions   December 23–24, 2013
  Moscow, Russia.
- Emerging Applications of Finite Fields   December 9–13, 2013
  Linz, Austria.
- Conference on Number Theory   November 1–2, 2013
  Hong Kong, China.
- Conference in Combinatorics and Number Theory   September 1–7, 2013
  Palanga, Lithuania.
- Workshop on Fourier Analysis and additive problems   August 26–30, 2013
  Budapest, Hungary.
- Erdös Centennial Conference   July 1–5, 2013
  Budapest, Hungary.
- Chinese–Russian conference on Number Theory   October 8–12, 2012
  Moscow, Russia.
- Discrete Geometry   August 13–17, 2012
  Yaroslavl, Russia.
- Diophantine Analysis   July 30–August 3, 2012
  Astrakhan, Russia.
- Additive combinatorics in Paris   July 9–13, 2012
  Paris, France.
- Uniform distribution theory   June 25–29, 2012
  Slovakia, Smolenice.
- Flows on surfaces, symbolic dynamics and dynamics in moduli spaces   December 5–9, 2011
  Moscow, Russia.
- Scientific conference dedicated to M.V. Lomonosov   November 14–23, 2011
  Moscow, Russia.
- Conference on Number Theory   November 3–9, 2011 Hong Kong, China.
- Paul Turán Memorial Conference   August 22–26, 2011
  Budapest, Hungary.
- 50 years of IPPI   July 25–29, 2011
  Moscow, Russia.
- Journée Arithmétiques   June 27–July 1, 2011
  Vilnius, Lithuania.
- Arithmetic Days in Moscow (ETH-MIAN)   June 13–17, 2011
  Moscow, Russia.

- Seminar Number Theory Study Group'   February 15–24, 2011
  York, UK.

- ICM 2010   August 19–28, 2010
  Hyderabad, India.

- Uniform distribution theory   July 4–11, 2010
  Strobl, Austria.

- XXXIV Far East conference mathematical school–seminar dedicated to academician E.V. Zolotov   June 25–30, 2009
  Khabarovsk, Russia.

- Modern problems of mathematics, mechanics and their applications   March 30 — April 1, 2009
  Moscow, Russia.

- Young Mathematics of Russia (conference of prizewinners of P.Deligne and V.Zimin's contests)   January 12–13, 2009
  Moscow, Russia.

- Discrete Rigidity Phenomena in Additive Combinatorics   November 3–7, 2008
  Berkeley, USA.

- Building bridges   August 5–9, 2008
  Budapest, Hungary.

- Uniform distribution   January 21–25, 2008
  Marseille, France.

- Probability and Ergodic Theory Workshop   February 15–18, 2007
  Chapel Hill, USA.

- Diophantine and Analytical Problems of Number Theory   January 29–February 2, 2007
  Moscow, Russia.

- Analytical and Combinatorial Methods in Number Theory and Geometry   May 25–31, 2006
  Moscow, Russia.

- Workshop on Additive Combinatorics   April 6–12, 2006
  Montreal, Canada.

- School on Additive Combinatorics   March 30–April 5, 2006
  Montreal, Canada.

- Probability and Ergodic Theory Workshop   February 16–19, 2006
  Chapel Hill, USA.

- Additive Combinatorics   September 5–9, 2005
  Bristol, England.

- Workshop on Geometrical Methods in Physics   June 26–July 2, 2005
  Belowieza, Poland.

- Recent Trends in Additive Combinatorics   September 9–12, 2004
  Palo Alto, USA.

- ○ Diophantine analysis, uniform distributions and applications   August 25–30, 2003
  Minsk, Belarus.

- ○ XXIIIrd Journée Arithmétiques   July 6–12, 2003
  Graz, Austria.

- ○ Algebra and Number Theory: Modern Problems and Applications   May 19–24, 2003
  Tula, Russia.

- ○ Modern Theory of Dynamical Systems and Applications to Theoretical Celestial Mechanics   December 23–28, 2002
  Moscow, Russia.