

Personal data

Citizenship	Russian
E-mail	yashakon@mail.ru
Languages	Russian (native), English, French
Programming skills	C++, Wolfram Mathematica

Education

2014 – 2016	Master student at Higher School of Economics (HSE), Faculty of Mathematics. 2016 – Diploma with honors. Thesis "Computation of amplitudes in topological string theories".
2010-2015	Student at Independent University of Moscow (IUM), College of Mathematics. 2015 – Diploma with honors. Thesis "Colored HOMFLY polynomials".
2010-2014	Undergraduate student at Moscow Institute of Physics and Technology (MIPT). Department of General and Applied Physics. 2014 – BSc degree with honors. Thesis "Some aspects of two-dimensional topological theories".

Publications (7)

- Ya.Kononov, A.Morozov, *On rectangular HOMFLY for twist knots*, JHEP11(2015)151, <http://arxiv.org/abs/arXiv:1610.04778>
- Ya.Kononov, A.Morozov, *Rectangular superpolynomials for the figure-eight knot*, preprint, <http://arxiv.org/abs/arXiv:1609.00143>
- Ya.Kononov, A.Morozov, *On Factorization of Generalized Macdonald Polynomials*, Eur.Phys.J. C76 (2016) no.8, 424, <http://arxiv.org/abs/arXiv:1607.00615>
- D.Gepner, A.Belavin, Ya.Kononov, *Flat coordinates for Saito Frobenius manifolds and String theory*, TMF, <http://arxiv.org/abs/1510.06970>
- Ya.Kononov, A.Morozov, *Colored HOMFLY and Generalized Mandelbrot set*, JHEP11(2015)151, <http://arxiv.org/abs/1510.01252>
- Ya.Kononov, A.Morozov, *Factorization of colored knot polynomials at roots of unity*, Phys.Lett. B747 (2015) 500-510, <http://arxiv.org/abs/1505.06170>
- Ya.Kononov, A.Morozov, *On the defect and stability of differential expansion*, JETP Letters 101 (2015) 831-834 (Pisma v ZhETF 101 (2015) 931-934), <http://arxiv.org/abs/1504.07146>

Schools and Conferences

December 2015	Advanced School on Topological Quantum Field Theory, Warsaw (Poland)
October 2015	Short-time visitor at the Weizmann Institute (Israel) (D.Gepner's invitation)

October 2015	Short-time visitor at IPMU (K.Saito's invitation) (Japan); attended Reshetikhin's lectures on BV quantization.
September 2015	Workshop "Particles, fields and strings" (Azerbaijan)
September 2015	Graduate Workshop on Topological Quantum Field Theory at Simons Center, Stony Brook (USA).
July 2015	Tokyo-Berkeley Summer School "Geometry and Mathematical Physics" (IPMU).
July 2014	Summer School "Algebra and Geometry" in Yaroslavl (Russia)
June 2014	Summer School "Derived categories" in Nantes (France)
March 2014	Workshop "Towards the proof of geometric Langlands conjecture" in Jerusalem (Israel)
September 2013	Scientific program "Cohomology in Mathematics and Physics" in Saint-Petersburg (Russia)
July 2013	Summer School "Algebra and Geometry" in Yaroslavl (Russia)
June 2013	Summer School in Subnuclear Physics in Erice (Italy).

Teaching Experience

Spring 2015	Teaching Assistant at HSE on the course "Introduction to Algebraic Geometry".
Fall 2014	Teaching assistant at HSE on the course "Sheaves and Homological Algebra".
Fall 2014	Teaching assistant at IUM on the course "Geometry".

Talks

February 2015	B.Feigin's seminar on Mathematical Physics. Talk "On Nekrasov-Okounkov formula for $\chi(\text{Hilb}(\mathbb{C}^3))$ ".
December 2015	IUM seminar on knot invariants and their relation with quantum and statistical physics. Talk "Colored HOMFLY polynomials".
October 2015	IPMU Mathematics-String theory seminar (Japan). Talk "K.Saito structures and string theory".
September 2015	Workshop "Particles, fields and strings" (Azerbaijan). Talk "Dolotin's approach to superpolynomials"
September 2015	Quantum Field Theory seminar at Landau Institute of Theoretical Physics. Talk " $N = 2$ superconformal models and primitive form theory".
July 2015	Tokyo-Berkeley Summer School "Geometry and Mathematical Physics" (Japan). Talk at the student session "Topological strings and Saito's theory"
May 2015	S.Loktev's seminar on Topological Quantum Field Theories. Talk "Perturbative approach to Chern-Simons theory"
April 2015	A.Gorinov and V.Shevtchishin seminar on the index theorem. Talk "The proof of the index theorem via SUSY Quantum Mechanics".
April 2015	A.Marshakov's seminar on Mathematical Physics. Talk "Topological Yang-Mills theory and localization".

- March 2015 B.Feigin's seminar on Mathematical Physics. Talk "Topological Quantum Field Theories AKSZ and Kontsevich's deformation quantization".
- February 2015 Research seminar "Open problems in Mathematics" at HSE. Talk "Deformations of Topological Quantum Field Theories".
- November 2014 A.Morozov's seminar in ITEP. Talk "New Observables in abelian 2-dimensional YM theory with zero coupling constant"
- October 2014 A.Gorinov and V.Shevtchishin seminar on index theorem. Talk "Clifford algebra".
- March 2014 Algebraic geometry seminar at Scientific-Educational Center Steklov Math Institute. Talk "Rationally connected varieties"
- March 2014 Olshanetsky seminar on geometric quantization at ITEP. Talk "Divisors, sheaves and cohomology"
- November 2013 Algebraic geometry seminar at Scientific-Educational center Steklov Math Institute. Talk "Difference of primian from a sum of jacobians"
- March 2013 Algebraic geometry seminar at Scientific-Educational center Steklov Math Institute. Talk "Surfaces with $p_g = 0, q > 1$ "
- October 2012 Algebraic geometry seminar at Scientific-Educational center Steklov Math Institute. Talk "Classification of curves in \mathbb{P}^3 "

Hobby

I am fond of playing the piano and listening to the classical music. My favorite composers are J.S.Bach, F.Chopin, F.Liszt, S.Rachmaninov, J.Brahms, P.Tchaikovsky.