

**Publications and preprints****Papers and preprints:**

*Неравенства для чисел Бетти гиперкэлеровых многообразий в размерности шесть*, Математические заметки, том 99, 1, 2016. (Inequalities for Betti numbers of hyperkähler manifolds in dimension six, in Russian).

*Absolutely trianalytic tori in the generalized Kummer variety*, Arxiv, 1504.08010 [math.AG], submitted to Advances in Mathematics (2015).

*Boundness of  $b_2$  for hyperkähler manifolds with vanishing odd-Betti numbers*, Arxiv, 1511.02838 [math.AG].

*The second Betti number of hyperkähler manifolds*, Arxiv, 1401.0510 [math.AG].

*Абсолютно трианалитические торы в обобщённом многообразии Куммера*, V Школа-конференция по алгебраической геометрии и комплексному анализу для молодых математиков России, Коряжма, сборник тезисов, стр. 57. (in Russian)

**Books:**

*LXXV Moscow Mathematical Olympiad* (as one of authors), М.: MCCME, 2012, 72 pages.

*LXXVI Moscow Mathematical Olympiad* (as one of authors), М.: MCCME, 2013, 78 pages.

Problems of Moscow Chemical Tournaments (as one of authors), М.: MCCME, 2015, 44 pages.

**Participation in conferences and workshops****Organization**

Workshop on Projective Algebraic Geometry (celebrating Fyodor Zak's 65th birthday), Moscow, Russia, 7.09.-12.09.2015.

**Talks and posters**

1. Talk "*Connections on nilmanifolds*", Geometric structures on manifolds and their applications, Marburg, Germany, 1-7.07.2012.

2. Talk "*On the dynamics of codimension one holomorphic foliations with ample normal bundle*", Workshop on complex geometry and foliations, dedicated to the memory of Marco Brunella, Moscow, Russia, September 17-21, 2012.

3. Talk "*Связности на нильмногообразиях*", Летняя школа-конференция по проблемам алгебраической геометрии и комплексного анализа, Ярославль, 20-25.05.2013.

4. Talk "*The second Betti number of hyperkähler manifolds*", The School "Carnival Differential Geometry", Torino, Italy 24-27.02.2014.

5. Talk "The inequalities involving the Betti numbers of hyperkähler manifolds", Conference "Geometric Control Theory and Analysis on Metric Structures", Lake Baikal, Russia, 3-8.08.2014

6. Poster “Inequalities with Betti and Hodge numbers for hyperkaehler manifolds”, British Algebraic Geometry meeting (BrAG), Warwick, England, 19-21.09.2014.
7. Poster “Trianalytic subvarieties in hyperkahler manifolds”, Hyperbolicity-2015, Ilhabela, Brazil, 5-15.01.2015.
8. Talk “*Absolutely trianalytic tori in the generalized Kummer variety*”, Conference “Hyperkähler Saturday”, Moscow, Russia, 23.05.2015.
9. Talk “*Абсолютно трианалитические торы в обобщённом многообразии Куммера*”, V Школа-конференция по алгебраической геометрии и комплексному анализу для молодых математиков России, Коряжма, Russia, 17-22.08.2015.
10. Talk “*The second Betti number of hyperkähler manifolds*”, Conference “Workshop on almost hermitian and contact geometry”, Bedlewo, Poland, 18.10.-24.10.2015

### Participation

1. Master class: Around Torelli’s theorem for K3 manifolds, Strasbourg, France, 28.10.-01.11.2013.
2. 3rd Swiss-French workshop on algebraic geometry, Enney, Switzerland, 27-31.01.2014.
3. Moduli spaces of irreducible symplectic varieties, cubics and Enriques surfaces, Lille, March 24-28, 2014
4. Workshop, “Geometry and arithmetic of hyperkähler manifolds”, Hannover, Germany, 8-11.02.2015.
5. Workshop “Derived categories and birational geometry”, Warwick, England, 1-6.06.2015.
6. Conference “Geometry and Dynamics on Moduli Spaces”, Oxford, England, 28.09.-02.10.2015.
7. Georgian Algebraic Geometry Symposium, Atlanta, GA, USA, 22.10.-25.10.2015

### Seminar talks

- *Absolutely trianalytic tori in the generalized Kummer varieties*, MAGIC seminar, Imperial College, 28.09.2015.
- *Betti numbers of hyperkahler manifolds*, Algebra/Algebraic Geometry seminar, University of Sheffield, 29.09.2015.
- *Betti numbers of hyperkahler manifolds*, ULB Geometry seminar, ULB, Brussels, 10.11.2015.
- **Complex structures on manifolds seminar, Laboratory of algebraic geometry and its applications,**

On Fundamental Groups of Complete Affinely Flat Manifolds (on Milnor’s work), Fall 2011,

On varieties whose universal cover is product of curves (After Catanese and Franchiosi), Spring 2012,

Contact Dehn surgery and P-property of knots (After Geiges), Spring 2012,

Proof of P-property: instanton Floer homology, Donaldson invariant, Chern-Simmons functional, Spring 2012.

Holomorphis dynamics on K3 surfaces, Spring 2013.

Futaki invariant, 27.06.2013.

Cohomology properties of kahler manifolds, 10.10.2013.

Hodge ring of kahler manifolds, 21.11.2013.

Volume preserving complex structures on tori, 13.02.2014.

Special Kahler Manifolds, 10.04.2014.

Monodromy group of the Hilbert scheme of K3, 25.09.2014.

On the Guan's examples of non-kaehler manifolds, 20.11.2014.

Rozansky-Witten invariants, 26.02.2015.

On automorphisms of hyperkahler manifolds, 15.10.2015.

- **Dobrushin laboratory seminar, IITP**

Connections on nilmanifolds, 18.09.2012.

- **Ph.D. Seminar at IUM**

On the cohomology of hyperkahler manifolds, 12.12.2015.