

Publications, Grant FWF, P22122

1.a.1. Peer-reviewed publications

1) Neretin, Yu. A. *Double cosets for $SU(2) \times \cdots \times SU(2)$ and outer automorphisms of free groups*. *Int. Math. Res. Not. IMRN* 2011, no. 9, 2047-2067 (arXiv:0903.4767)

2) Neretin, Yu. A. *Spectral data for a pair of matrices of order 3 and the action of the group $GL(2, \mathbb{Z})$* . *Izv. Math.* 75 (2011), no. 5, 959-969. The preprint version arXiv:0910.0606, the journal version is available via <http://mr.crossref.org/iPage/?doi=10.1070%2FIM2011v075n05ABEH002560>

3) Neretin, Yu. ***Infinite tri-symmetric group, multiplication of double cosets, and checker topological field theories***. *Int. Math. Res. Not. IMRN* 2012, no. 3, 501-523. Preprint (not final) version arXiv:0909.4739

4) Neretin, Yu. A. *Sphericity and multiplication of double cosets for infinite-dimensional classical groups*. *Funct. Anal. Appl.* 45 (2011), no. 3, 225-239 (arXiv:1101.4759)

5) Neretin, Yu. A. ***Multi-operator colligations and multivariate characteristic functions***. *Anal. Math. Phys.* 1 (2011), no. 2-3, 121-138 (arXiv:1006.2275)

6) Neretin, Yury *Symmetries of Gaussian measures and operator colligations*. *J. Funct. Anal.* 263 (2012), no. 3, 782-802.

7) Neretin, Yu. A. *Remark on Representations of Infinite Symmetric Groups*. *J. Math. Sci. (NY)*, DOI: 10.1007/s10958-013-1262-4 (arXiv:1204.4198)

8) Neretin, Yu. A. *On topologies on Malcev completions of braid groups* *Moscow Math. J.*, v. 12, 803-824 (arXiv:1006.1101)

9) Neretin, Yu. A. *Stein-Sahi complementary series and their degenerations*. In Krortz et al. *Representation theory, complex analysis, and integral geometry*, 133-183, Birkhäuser, Springer, New York, 2012 (arXiv:0804.1990)

10) Neretin, Yu. A. *Hua measures on the space of p -adic matrices and inverse limits of Grassmannians*, to appear in *Izvestiya: Mathematics* (arXiv:1205.2113)

11) Neretin, Yu. A. *On the boundary of the group of transformations leaving a measure quasi-invariant*, to appear in *Sbornik: Mathematics*. Preprint version arXiv:1111.2833 (now, 17.04.13, it is essentially differs from the accepted version).

12) Neretin, Yu. A. *Difference Sturm–Liouville problems in the imaginary direction*, to appear *J. Spectral Theory* (arXiv:1104.1936)

13) Marmo, G.; Michor P. W.; Neretin Yu. A. *The Lagrangian Radon Transform and the Weil representation*, to appear in *J. Four. Anal. Appl.* (arXiv:1212.4610)

14) Alekseevsky D. V., Michor P. W., Neretin Yu.A. *Rolling of Coxeter polyhedra along mirrors*. Geometric Methods in Physics: XXX Workshop, 26 to July 2, 2011: XXXI Workshop Bialowieza, Poland, to appear (arXiv:0907.3502)

1.a.2. Non-peer-reviewed publications

15) Karabegov A., Neretin Yu, Voronov Th. *Felix Alexandrovich Berezin and his work*. Geometric Methods in Physics: XXX Workshop, 26 to July 2, 2011: XXX Workshop Bialowieza, Poland, June 26 to July 2, 2011, Birkhauser (Basel, Switzerland), p. 3-34

16) *Index hypergeometric integral transform*, arXiv:1208.3342: to appear as Addendum to Russian translation of Andrews, Askey, Roy, “*Special functions*“

17) Neretin, Yu.A. *Infinite symmetric group and combinatorial descriptions of semigroups of double cosets*. Preprint, arXiv:1106.1161

18) Neretin, Yu.A. *Infinite-dimensional p -adic groups, semigroups of double cosets, and inner functions on Bruhat–Tits buildings*, arXiv:1108.4873

19) Neretin, Yu.A. *On p -adic colligations and ‘rational maps’ of Bruhat–Tits trees*, arXiv:1301.5453 6

20) Neretin, Yu. A. *The space L^2 on semi-infinite Grassmannian over finite field*, arXiv:1209.3477

21) **Neretin, Yu.A. *Multiplication of conjugacy classes, colligations, and characteristic functions of matrix argument*, arXiv:1211.7091**

22) Neretin, Yu.A. *On concentration of convolutions of double cosets at infinite-dimensional limit*, arXiv:1211.6149

List 2. Project related participation in international scientific conferences

2.1. Conference participation. Invited lectures

1) *Multivariate characteristic functions* Levicco conference on symmetric spaces, Italy, June 2010

2) *Spherical representations of infinite-dimensional groups and categories of double cosets*. Representation Theory and Harmonic Analysis, Oberwolfach, Germany, 2010

3) *Multioperator colligations and their characteristic functions*, Sophus Lie Seminar, Marburg, Germany, January 2011

4) *Multiplications of double cosets for infinite-dimensional groups* Noncommutative harmonic analysis and representation theory, Universite du Luxembourg, June, 2011

5) *Multivariate characteristic functions and double coset spaces for infinite-dimensional groups*, XXX Workshop on Geometric Methods in Physics 26.06-02.07.2011, Bialowieza, Poland

6) *Infinite-dimensional classical groups, multiplication of double cosets, and multivariate inner functions*, Program "Analysis on Lie Groups", Max-Planck-Institute, Bonn, September, 2011

7) *Infinite symmetric group, two-dimensional simplicial bordisms, and Feynmann diagrams*. XXXI Workshop on Geometric Methods in Physics, Bialowieza, Poland, June 2012

8) *Virasoro algebra and Riemannian surfaces* (series of lectures), School "Physics and Geometry", Bialostok, Bielowieza, Poland, July 2012

9) *Spaces of conjugacy classes and double cosets* (series of lectures) Advances in Teichmüller theory, Vienna, ESI, April 2013

10) *Infinite symmetric group, checker topological field theories, and Feynmann diagrams*. Teichmüller theory : quantization and relations with physics, Vienna, ESI, April, 2013

2.2. Conference participation - lectures

1) *Multi-operator colligations and multi-variate characteristic functions*. New Trends in Harmonic and Complex Analysis, June 2010 Jacobs University, Bremen, Germany (sectional talk)

2.3. Conference participation - posters

None

2.4. Conference participation - others

None