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Sergei O. Ivanov

First name: Sergei.

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Date of birth: 5 august 1986.

2019- member of St. Petersburg Mathematical Society.

2018- senior researcher in Laboratory of Modern Algebra and Applications, Saint Peterburg University.

2013-2017 postdoctoral researcher in Chebyshev Lab. of Saint Peterburg University.

2012 Ph. D. Saint Petersburg University, Mathematics.

Thesis Title: Resolutions and cohomological properties of selfinjective algebras.

Thesis Advisor: Generalov A. I.

2008-2011 post-graduate student of Saint Petersburg State University.

2003-2008 student of Saint Petersburg State University (Saint Petersburg, Russia).

Talks:

2021 November. Topology of Torus Actions and Related Topics. “An overview of rationalization theories”

<https://cs.hse.ru/ata-lab/tta/>

2020 November. International Conference Topology and Geometry of Group Actions. ”On homology of Lie algebras over commutative rings”.

<https://cs.hse.ru/ata-lab/tgga>

2019 June. Workshop Groups and Group Rings. June 3-8 2019. St. Petersburg, Russia. “Bousfield’s localization of groups”.

<http://www.pdmi.ras.ru/EIMI/2019/GGR/index.html>

2018 October. Geometry, Analysis, Groups. October 1-5, 2018. St. Petersburg, Russia. “Transfinite invariants of groups and spaces”,

<http://www.pdmi.ras.ru/EIMI/2018/GAG/index.html>

2018 June. Group theory seminar of ENS, France, Paris, “Transfinite invariants of groups and spaces”. <https://sites.google.com/site/annaerschler/programtalks>

2017 December. “Algebraic Topology, Geometry and Combinatorics of Manifolds (ATGCM2017)”, China, Sanya, <http://www.tsimf.cn/meeting/show?id=108>, *Talk title:* Homology of R -completions of a group and finite R -bad spaces.

2017 December. ”7th East Asian conference on algebraic topology (EACAT)”, India, Mohali, <http://www.iitrpr.ac.in/EACAT/index.html>, *Talk title:* Homology of R -completions of a group and finite R -bad spaces.

2017 November. Pan Pacific International Conference on Topology and Applications (PPICTA), 13-17 2017, South Korea, Busan, <https://sites.google.com/view/2ndppicta>, *Talk title:* Homology of R -completions of a group and finite R -bad spaces.

2016 October. Discussion Meeting on Topology and Groups, IISER Mohali, <https://sites.google.com/site/tgdm2016>, *Talk title:* “Higher limits. fr-codes”.

2015 August. International Conference on Combinatorial and Toric Homotopy,

Singapore, August 24-28. *Talk title*: “On nontriviality of homotopy groups of spheres”.

2014 August. ICM 2014 Satellite Conference on Algebraic Topology, Dalian, China, August 9-12. *Talk title*: “The Bousfield problem for the class of metabelian groups”.

2012 August. International Conference on Representations of Algebras 2012, Bielefeld, Germany. *Talk title*: “Selfinjective algebras of small stable Calabi-Yau dimension”.

2010 June. Conference devoted to the 70th birthday of A. V. Yakovlev (PDMI). *Talk title*: “Involutions on cohomology algebras”.

2007 September. Conference devoted to the 100th birthday of D. K. Fadeev (PDMI). *Talk title*: “Hochschild cohomology of algebras of quaternion type with two vertices”.

Honors: 2014 Young mathematician prize of St. Petersburg Mathematical Society.

REFERENCES

- [1] S. O. Ivanov, F. Pavutnitskiy, V. Romanovskii, A. Zaikovskii. On homology of Lie algebras over commutative rings. *Journal of Algebra*, 586, (2021), 99-139.
- [2] D. Akhtiamov, S. O. Ivanov, F. Pavutnitskiy. Right exact localizations of groups. *Israel Journal of Mathematics* (2021): 1-35.
- [3] Ivanov, Sergei O., and Viktor Lopatkin. “Parafree augmented algebras and Gröbner-Shirshov bases for complete augmented algebras.” *Journal of Pure and Applied Algebra* (2021): 106725.
- [4] Ivanov, Sergei O., and A. A. Zaikovskii. “Mod-2 (co) homology of an abelian group.” *Journal of Mathematical Sciences* 252.6 (2021): 794-803.
- [5] Ivanov, Sergei O., and Roman Mikhailov. “Right exact group completion as a transfinite invariant of homology equivalence.” *Algebraic & Geometric Topology* 21.1 (2021): 447-468.
- [6] Ivanov, Sergei O., Roman Mikhailov, and Anatolii Zaikovskii. “Homological properties of parafree Lie algebras.” *Journal of Algebra* 560 (2020): 1092-1106.
- [7] Ivanov, Sergei O., Vladislav Romanovskii, and Andrei Semenov. “A simple proof of Curtis’ connectivity theorem for Lie powers.” *Homology, Homotopy and Applications* 22.2 (2020): 251-258.
- [8] Ivanov, Sergei O., Roman V. Mikhailov, and Vladimir A. Sosnilo. “Higher colimits, derived functors and homology.” *Sbornik: Mathematics* 210.9 (2019): 1222.
- [9] Ivanov, Sergei O., and Roman Mikhailov. “A finite \mathbb{Q} -bad space.” *Geometry & Topology* 23.3 (2019): 1237-1249.
- [10] Ivanov, Sergei O., and Roman Mikhailov. “On discrete homology of a free pro-group.” *Compositio Mathematica* 154.10 (2018): 2195-2204.
- [11] Ivanov, Sergei O., and Roman Mikhailov. “On lengths of $H\mathbb{Z}$ -localization towers.” *Israel Journal of Mathematics* 226.2 (2018): 635-683.
- [12] Ivanov, Sergei O., Roman Mikhailov, and Jie Wu. “Leibniz Rule on Higher Pages of Unstable Spectral Sequences.” *Edinburgh Mathematical Society. Proceedings of the Edinburgh Mathematical Society* 61.1 (2018): 265.
- [13] Ivanov, Sergei O. “On Bousfield’s problem for solvable groups of finite Prüfer rank.” *Journal of Algebra* 501 (2018): 473-502.
- [14] Ivanov, Sergei O., and Roman Mikhailov. “Higher limits, homology theories and fr-codes.” *Combinatorial And Toric Homotopy: Introductory Lectures*. 2018. 229-261.
- [15] Ivanov, Sergei O., Roman Mikhailov, and Jie Wu. “Homotopy theory and generalized dimension subgroups.” *Journal of Algebra* 484 (2017): 224-246.
- [16] Ivanov, Sergei O., Roman Mikhailov, and Jie Wu. “On nontriviality of certain homotopy groups of spheres.” *Homology, Homotopy and Applications* 18.2 (2016): 337-344.

- [17] Ivanov, Sergei O., and Roman Mikhailov. "On a problem of Bousfield for metabelian groups." *Advances in Mathematics* 290 (2016): 552-589.
- [18] Ivanov, A., Ivanov, S. O., Volkov, Y., Zhou, G. (2015). BV structure on Hochschild cohomology of the group ring of quaternion group of order eight in characteristic two. *Journal of Algebra*, 435, 174-203.
- [19] Ivanov, Sergei O., and Roman Mikhailov. "A higher limit approach to homology theories." *Journal of Pure and Applied Algebra* 219.6 (2015): 1915-1939.
- [20] Ivanov, S. O., and Y. V. Volkov. "Stable Calabi–Yau dimension of self-injective algebras of finite type." *Journal of Algebra* 413 (2014): 72-99.
- [21] S. O. Ivanov. The stable Calabi–Yau dimension of the preprojective algebra of type L_n . *St. Petersburg Mathematical Journal* 24.3 (2013): 475-484.
- [22] Ivanov, S. O. "Self-Injective algebras of stable Calabi-Yau dimension three." *Journal of Mathematical Sciences* 188.5 (2013): 601-620.
- [23] Ivanov, S. O. "Nakayama functors and Eilenberg-Watts theorems." *Journal of Mathematical Sciences* 183.5 (2012): 675-680.
- [24] Y. Volkov, A. Generalov, S. O. Ivanov. On the construction of bimodule resolutions with the help of the Happel lemma. *Journal of Mathematical Sciences* 171.3 (2010).
- [25] A. Generalov, S. O. Ivanov. Bimodule resolution of a group algebra. *Journal of Mathematical Sciences* 161.4 (2009): 537-541.
- [26] A. Generalov, A. A. Ivanov, S. O. Ivanov. Hochschild cohomology of algebras of quaternion type. II. The family $Q(2B)1$ in characteristic 2. *Journal of Mathematical Sciences* volume 151, pages 2961–3009 (2008)