▷ Personal information

Name:	TANASHKIN Aleksei
E-mail:	tanashkin.alexey@gmail.com
Place of birth:	Vladivostok, Primorye region, Russia
Date of birth:	17 Septemper 1989 (36 years)
Nationality:	Russian
Family status:	married, one child

▷ Administrative status

Principal/Research

Status:	Postdoc
Establishment:	Beijing Institute of Mathematical Sciences and Applications (BIMSA) No. 544, Hefangkou Village Huaibei Town, Huairou District Beijing 101408

▷ Professional experience

2025 till present	Postdoc, BIMSA, Beijing, China
2024 – 2025 present	Researcher, Pacific Quantum Center, FEFU, Vladivostok, Russia
2025	Associate Professor, Advanced Engineering School, FEFU “Institute of Biotechnology, Bioengineering and Food Systems”
2025	Teacher of “Higher Mathematics” on program “Molecular biology”, Advanced Engineering School, FEFU
2025	Teacher of “Mathematical methods of analysis of experimental data” on program “Bioinformatics and data analysis”, Advanced Engineering School
2024	Teacher of “Mathematics” on program “Clinical and Experimental Pharmacy”, School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2024	Teacher of “Mathematics” on international programs “Clinical and Experimental Pharmacy” and “Biomedicine”, School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2023	Teacher of “Medical Cybernetics” on international master program “Leadership and Governance in Public Health”, School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2021–2022	Teacher of “Higher Mathematics” on program “Biotechnology”, School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2020–2023	Junior Researcher, Pacific Quantum Center, FEFU, Vladivostok, Russia
2019	Junior Researcher, Laboratory of Physics of Living Matter, FEFU, Vladivostok, Russia

▷ Academic degrees

◦ Ph.D.	2023, National Research Nuclear University MEPHI, Moscow, Russia Thesis: The influence of non-trivial topology on vacuums of lattice gauge theories and spin systems” Advisor: Vladimir Shevchenko
◦ Master	2018, Far Eastern Federal University (FEFU), Vladivostok, Russia Thesis: The study of statistical Potts model with non-local interaction Advisor: Vladimir Shevchenko
◦ Bachelor	2011, Far Eastern Federal University (FEFU), Vladivostok, Russia Thesis: Methods of information encoding by means of combining error-control codes Advisor: Inna Rudneva

▷ Scientific activity

Keywords

High energy physics; quantum field theory; quantum chromodynamics; numerical simulations of lattice gauge theories; topological objects in field theories: instantons, monopoles, vortices; non-perturbative phenomena; phase transitions in field theories; Casimir effect; statistical physics, computational physics.

Summary

Publications in peer-reviewed journals: 3
Total number of publications including conference proceedings: 11
Participation in international conferences: 7
Participation in conferences (total): 14
Patents: 7

Publications in peer-reviewed journals

- M. N. Chernodub, V. A. Goy, A. V. Molochkov and Alexey. S. Tanashkin, *"Boundary states and non-Abelian Casimir Effect in lattice Yang-Mills theory,"* Physical Review D **108**, 014515 (2023) [arXiv:2302.00376]
- M. N. Chernodub, V. A. Goy, A. V. Molochkov and A. S. Tanashkin, *"Casimir boundaries, monopoles, and deconfinement transition in (3+1)-dimensional compact electrodynamics"*, Physical Review D **105**, 114506 (2022) [arXiv:2203.14922]
- V. Shevchenko and A. Tanashkin, *"Non-local Potts model on random lattice and chromatic number of a plane,"* Journal of Computational science **61**, 101607 (2021) [arXiv:2107.08508]

Selected talks

- XVIth International conference "Quark Confinement and the hadron spectrum", Cairns, Australia, 19 – 24 Aug 2024, "Boundary states and non-Abelian Casimir effect in lattice Yang-Mills theory";
- XVth International conference "Quark confinement and the hadron spectrum", Stavanger, Norway, 1 – 6 Aug 2022, "The influence of the Casimir effect on the vacuum structure of (3+1)-dimentional compact electrodynamics";
- Virtual tribute to the conference "Quark confinement and the hadron spectrum", 2 – 6 Aug 2021, "Nonlocal Potts model on random lattice and chromatic number of the plane";

▷ Languages

- Russian – native speaker
- English – advanced (Cambridge Assessment English Certificate in Advanced English, level C1, Date of issue 19/08/2021, No. B6346760, Verification No. B5390744)