

# CURRICULUM VITAE

## Personal information

**Filipp Uskov**, born May 19, 1992.

web page <https://github.com/FeelUsM>.

contact details [fel1992@mail.ru](mailto:fel1992@mail.ru), +7 (926) 807-87-90, 25-1-275 Golubinskaya, 117463, Moscow, Russia.

## Education

2015-2018 **M.S. in Physics**, Moscow State University.

2010-2015 **B.S. in Physics**, Moscow State University.

2008-2010 **AESC MSU (Kolmogorov School)**.

## Employment

2019 – present **Software development**, Freelancer.

2017 – 2019 **Research Intern**, Skoltech.

2014 – 2015 **Senior Assistant**, [JINR](#).

## Publications

- 2020 **E. Shpagina, F. Uskov, N. Il'in, O. Lychkovskiy**. [Merits of using density matrices instead of wave functions in the stationary Schrödinger equation for systems with symmetries](#) // J. Phys. A: Math. Theor. 53, 075301 (2020).
- 2019 **F. Uskov, O. Lychkovskiy**. [A variational lower bound on the ground state of a many-body system and the squaring parametrization of density matrices](#) // J. Phys.: Conf. Ser. 1163, 012057 (2019).
- 2018 **N. Il'in, E. Shpagina, F. Uskov, O. Lychkovskiy**. [Squaring parametrization of constrained and unconstrained sets of quantum states](#) // J. Phys. A: Math. Theor. 51, 085301 (2018).
- 2017 **Nikolay Il'in, Elena Shpagina, Filipp Uskov, Oleg Lychkovskiy**. [A parametrization of constrained and unconstrained sets of quantum states](#) // J. Phys. A: Math. Theor. 51 (2018) 085301
- 2016 **Filipp Uskov**. [Mechanical model of electrical circuits](#) // [geektimes.ru/post/277572/](http://geektimes.ru/post/277572/)
- 2015 **Filipp Uskov**. [Method of writing parsers on c ++](#) // [habrahabr.ru/post/266589/](http://habrahabr.ru/post/266589/)

## Grants and projects

2017-2020 Quantum adiabaticity in many-body systems. Team Leader: Oleg Lychkovskiy. Russian Science Foundation grant N 17-71-20158.

## Conference talks & posters

- 20-23/11/2017 XV International Conference on Quantum Optics and Quantum Information, Minsk, poster presentation.
- 20-24/11/2017 60th all-Russian scientific conference of MIPT (Moscow Institute of physics and technology), Moscow, poster presentation.

## Short-term visits

2015 DESY