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Scaling limits in algebra, geometry, and probability

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Curriculum vitae

Elizaveta Maksimovna Arzhakova was born on August 12, 1993 in Moscow, Russia. She graduated from a mathematical class of the Moscow Gymnasium no. 1543 in 2011. She obtained a Bachelor of Science in Mathematics in the Higher School of Economics in Moscow in 2015 where she wrote a graduation thesis *Dynamics on Heisenberg group* under the supervision of Prof. dr. M. Verbitsky.

In 2015 Elizaveta entered the Master programme in Mathematics in the Higher School of Economics, Moscow. In 2016 she conducted a research project on isoperiodic sets of meromorphic differentials in École Normale Supérieure under the supervision of Prof. dr. B. Deroin. Elizaveta obtained a SwissMap fellowship to participate in the Master class in Geometry, Topology and Physics in Université de Genève in 2016-2017. She obtained two Master of Science degrees, both in Mathematics. The first degree was obtained in the Higher School of Economics in 2017 with a thesis *On thermodynamic formalism for quadratic differentials* under supervision of Dr. A. Skripchenko. The second degree was obtained in Université de Genève in 2018 with a thesis *On Pitman Theorem for $SU(2)$* supervised by Prof. dr. A. Alexeev.

In September 2017 Elizaveta started a PhD research project in Leiden University under the supervision of Prof. dr. E. Verbitskiy and supported by the Huygens fellowship. During her doctoral studies, she served as a teaching assistant in many courses and visited several scientific conferences. In 2019 she supervised a project on domino tilings of the Leiden PRE-University programme. In 2020 she took part in organising the transition into the on-line education due to Covid-19 pandemic in the Mathematical Institute in Leiden.