CURRICULUM VITAE

KetevanShavgulidze

Associate Professor

Number Theory

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Education and Scientific quality

- 1975 - 1980 Iv. JavakhishviliTbilisiStateUniversity, Faculty of Mechanics and Mathematics,
- 1989 -   PHD –CandidateofScienceofPhysicsandMathematics, LeningradStateUniversity

Teaching courses:

- LinearAlgebraandAnalytical Geometry,
- Algebra,
- Geometry,
- Number Theory,
- NumberTheoryandits   application in Cryptography,
- GaloisTheory,
- AdditionalchaptersofLinearAlgebra.

Research Fields:

- NumberTheory,
- Theory of quadratic forms,
- Theoryofmodularforms.

Selected Publications

1. K. Shavgulidze, On the space of spherical polynomial with quadratic forms of any number of variables, *Reports of Enlarged Sessions of the Seminar of I. Vekua Institute of Applied Mathematics,* Vol. 30, 2016. http://www.viam.science.tsu.ge/enl_ses/vol30/shavgulidze.pdf

2. K. Shavgulidze On the space of spherical polynomial with quadratic forms of five variables, *Reports of Enlarged Sessions of the Seminar of I. Vekua Institute of Applied Mathematics,* Vol. 29, 2015, pp.119-122. http://www.viam.science.tsu.ge/enl_ses/vol29/shavgulidze.pdf

3. K. Shavgulidze, On the dimensions of some spaces of generalized theta-series, Lithuanian Mathematical Journal, Vol. 53, No. 2, April, 2013, pp.235-240 http://link.springer.com/article/10.1007%2Fs10986-013-9205-9

4. K. Shavgulidze, On the dimension of spaces of generalized quaternary theta-series, Proceedings of I. Vekua Institute of Applied Mathematics, Vol. 59-60, 2009-2010 http://www.viam.science.tsu.ge/publish/proceedings/vol59-60/shavgulidze.pdf

5. K. Shavgulidze, On the quadratic form of type (-2, q, 1) with discriminant q^2, Applied Mathematics Informatics and Mechanics, 2010, vol 15, no1. http://www.viam.science.tsu.ge/Ami/2010_1/Ketevan%20Shavgulidze_2010_1.pdf

6. On the number of representacions of integers by the sums of quadratic forms $x_1^2+x_1x_2+3x_2^2$, *International J. of Number Theory,* vol.5, No 3, pp. 515-525, 2009. http://www.worldscientific.com/doi/abs/10.1142/S1793042109002201.

7. On the dimension of some spaces of generalized ternary theta-series, *Georgian Math. J.*, vol. 9, No 1, pp. 167-178, 2002. https://www.emis.de/journals/GMJ/vol9/v9n1-13.pdf

8. К размерности пространств обобщенных тернарных тэта-рядов, *Труды ТГУ*, т. 288, стр. 22-37, 1989.

9. О размерности пространств обобщенных кватернарных тэта-рядов. II, *Труды ТГУ,* т. 288, стр. 38-45, 1989.

10. О верхней границе размерности некоторых пространств обобщенных кватернарных тэта-рядов. III, *Труды ТГУ*, т. 278, стр. 46-65, 1988.

11. О параболических и квадратичных формах тира (-4, q, t), *Труды ТГУ*, т. 215, стр. 95- 116, 1980.

12. О параболических и квадратичных формах тира (-4, q, 1), *Труды ТГУ*, т. 214, стр. 194-219, 1980.