



Archil Kipiani

Assistant professor

Department of Mathematical Logic and Discrete Structures

e-mail: archil.kipiani@tsu.ge

Phone: 0322534764,

Phone (mobile): +995593191010

Education:

- **Diploma of the University in Mathematics, Tbilisi State University**
- **Candidate of physical-mathematical sciences, Tbilisi State University**

Research Interests:

- **Mathematical Logic**
- **Set Theory**
- **Universal algebras**
- **Infinite Graphs**

Teaching

- **Mathematical Logic and discrete Mathematics**
- **Set Theory**
- **Mathematics for economists**

Grants

- **The investigation of the logical problems of some discrete mathematical structures with algebraic, algorithmic and combinatorial approach. GNSF/ST09/ 1-3/102**
- **Some applications of algorithmical and combinatorial methods in structures of algebraic and discrete types GNSF/ST08/3-391**
- **Logical Aspects of Some Discrete Mathematical Structures and Their Applications. GNSF/ST07/3-178**

Conferences

- International Conference Dedicated to 120th Anniversary of S. Banach, Lviv, Ukraine 2012.
<http://prima.lnu.edu.ua/faculty/mechmat/Departments/banach/index.html>
- Logic colloquium 2011, Barcelona (Spain) <http://www.logic2011.org/>
- Winter School in Abstract Analysis, Section Set Theory 2011, Hejnice, Czech Republic <http://www.winterschool.eu/2011>
- II International Conference of the Georgian Mathematical Union 2011 (section of Algebra & Number theory)
http://rmi.ge/~gmu/II_Annual_Conference/E_II_Annual.htm
- Winter School in Abstract Analysis, Section of Topology 2009, Hejnice, Czech Republic <http://www.winterschool.eu/2009>
- International Conference on Modern Problems in Applied Mathematics October, 2008 Tbilisi www.viam.science.tsu.ge/viam40/prg.doc

Selected Publications

- On automorphism groups of ω -Trees, Georgian Mathematical Journal, T. 15, No. 1, 2008.
- On Cardinalities of Automorphism Groups of Uniform Binary Relations, Reports of Enlarged Sessions of Seminar of I. Vekua Institute of Applied Mathematics, Tbilisi University Press, Vol.23, 2008.
- One Abstract Characterization of Intervals of Cardinal Numbers, Acta Universitatis Lodzianis, Folia Mathematica, 9, p. 55-61. 1997.
- A uniform subset in $\omega_\alpha \times \omega_\alpha$. Bull. Acad. Sci. GSSR, 135 (1989), no. 2, part I, 253—256 (in Russian).
- Uniform sets and isomorphisms of trees. Preprint no 107, Mathematical Institute, University of Wrociaw, 1989.
- Some Combinatorial Problems Connected With Product-Isomorphisms of Binary Relations, Acta Universitatis Carolinae, Mathematica et Physica, Vol. 29, No 2, 1988.
- Product-Isomorphisms of Binary Relations and some of their applications, Proceedings of the I.Vekua Institute of Applied Mathematics, Tbilisi University Press, vol.20, p.51-67, 1987 (in Russian).