Fuchsian Groups

Svetlana Katok

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Boris Nikolaevich Apanasov

Fuchsian Groups Fuchsian Groups:

  Fuchsian Groups Svetlana Katok,1992-08 This introductory text provides a thoroughly modern treatment of Fuchsian groups that addresses both the classical material and recent developments in the field A basic example of lattices in semisimple groups Fuchsian groups have extensive connections to the theory of a single complex variable number theory algebraic and differential geometry topology Lie theory representation theory and group theory   *Topics on Riemann Surfaces and Fuchsian Groups* Emilio Bujalance García,A. F. Costa,E. Martínez,2001-06-14 Introduction to Riemann surfaces for graduates and researchers giving refreshingly new insights into the subject   **Fuchsian Groups** Alexander Murray Macbeath,1965   **Finitely Generated Fuchsian Groups** Perri Lyn Gill,1997   **On the Geometry of Fuchsian Groups** Hala Aqad,2015 In this Master thesis we consider the discrete groups with emphasis on the geometry of discrete groups which lie at the intersection between Hyperbolic Geometry Topology Abstract Algebra and Complex Analysis Fuchsian groups are discrete subgroups of the group PSL 2 R of linear fractional transformations of one complex variable which is isomorphic to a quotient topological group PSL 2 R SL 2 R I Here SL 2 R is special linear group and I is the identity We study discrete groups in particular Fuchsian groups We present the geometric properties of Fuchsian groups such as fundamental domains compactness and Dilichlet tessellations In addition we also present some algebraic properties of Fuchsian groups

  Conformal Geometry of Discrete Groups and Manifolds Boris Nikolaevich Apanasov,2000 The aim of the Expositions is to present new and important developments in pure and applied mathematics Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers interested in a thorough study of the subject Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urba ski and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bostjan Gabrovsek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021   **Fuchsian Groups, Quasiconformal Groups, and Conical Limit Sets** Lesley Ann Ward,1994   **Normal Subgroups of Fuchsian Groups** Marc Berger,1972   **Encyclopaedia of Mathematics** Michiel Hazewinkel,1989-08-31 V 1 A B v 2 C v 3 D Feynman Measure v 4 Fibonaccimethod H v 5 Lituus v 6 Lobachevskii Criterion for Convergence Optical Sigman Algebra v 7 Orbi t Rayleigh Equation v 8 Reaction Diffusion Equation Stirling Interpolation

Fo rmula v 9 Stochastic Approximation Zygmund Class of Functions v 10 Subject Index Author Index **Fuchsian Groups and Algebraic Number Fields** P. L. Waterman,University of Aberdeen,1982 *The Geometry of Discrete Groups* Alan F. Beardon,2012-12-06 This text is intended to serve as an introduction to the geometry of the action of discrete groups of Mobius transformations The subject matter has now been studied with changing points of emphasis for over a hundred years the most recent developments being connected with the theory of 3 manifolds see for example the papers of Poincare 77 and Thurston 101 About 1940 the now well known but virtually unobtainable Fenchel Nielsen manuscript appeared Sadly the manuscript never appeared in print and this more modest text attempts to display at least some of the beautiful geo metrical ideas to be found in that manuscript as well as some more recent material The text has been written with the conviction that geometrical explana tions are essential for a full understanding of the material and that however simple a matrix proof might seem a geometric proof is almost certainly more profitable Further wherever possible results should be stated in a form that is invariant under conjugation thus making the intrinsic nature of the result more apparent Despite the fact that the subject matter is concerned with groups of isometries of hyperbolic geometry many publications rely on Euclidean estimates and geometry However the recent developments have again emphasized the need for hyperbolic geometry and I have included a comprehensive chapter on analytical not axiomatic hyperbolic geometry It is hoped that this chapter will serve as a dictionary offormulae in plane hyperbolic geometry and as such will be of interest and use in its own right **Fuchsian Groups of Signature (0 : 2, … , 2; 1; 0) with Rational Hyperbolic Fixed Points** Mark Alan Norfleet,2013 We construct Fuchsian groups Gamma of signature 0 2 2 1 0 so that the set of hyperbolic fixed points of Gamma will contain a given finite collection of elements in the boundary of the hyperbolic plane We use this to establish that there are infinitely many non commensurable non cocompact Fuchsian groups Delta of finite covolume sitting in PSL2 Q so that the set of hyperbolic fixed points of Delta will contain a given finite collection of rational boundary points of the hyperbolic plane We also give a parameterization of Fuchsian groups of signature 0 2 2 2 1 0 and investigate when particular hyperbolic elements have rational fixed points Moreover we include a detailed list of the group elements and their killer intervals for the known pseudomodular groups that Long and Reid found in addition the list contains a new list of killer intervals for a pseudomodular group not found by Long and Reid Cohomology and Rigidity of Fuchsian Groups A. Kononenko,Chengbo Yue,1994 *Symmetric Fuchsian Groups* Stanford University. Department of Mathematics,R. J. Sibner,1965 **Restricted Congruences in Computing** Khodakhast Bibak,2020-09-24 Congruences are ubiquitous in computer science engineering mathematics and related areas Developing techniques for finding the number of solutions of congruences is an important problem But there are many scenarios in which we are interested in only a subset of the solutions in other words there are some restrictions What do we know about these restricted congruences their solutions and applications This book introduces the tools that are needed when working on restricted congruences and then systematically studies a variety of restricted

congruences Restricted Congruences in Computing defines several types of restricted congruence obtains explicit formulae for the number of their solutions using a wide range of tools and techniques and discusses their applications in cryptography information security information theory coding theory string theory quantum field theory parallel computing artificial intelligence computational biology discrete mathematics number theory and more This is the first book devoted to restricted congruences and their applications It will be of interest to graduate students and researchers across computer science electrical engineering and mathematics **Encyclopaedia of Mathematics** M. Hazewinkel,2013-12-01 On Exceptional Points for Cocompact Fuchsian Groups Joseph L. Fera,2011 **Geometry of Riemann Surfaces** William J. Harvey,Frederick P. Gardiner,Gabino González-Diez,Christos Kourouniotis,2010-02-11 Original research and expert surveys on Riemann surfaces **Prepresentations of Free Fuchsian Groups in Complex Hyperbolic Space** Nikolay Gusevskii,John R. Parker,1998 **Hyperbolic Invariants for Infinitely Generated Fuchsian Groups** Ara Basmajian,1987

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