Moduli of Legendrian foliations and quadratic differentials in the Heisenberg group

Robin Timsit

Abstract

The aim of the paper is to prove the following result concerning moduli of curve families in the Heisenberg group. Let Ω be a domain in the Heisenberg group foliated by a family Γ of legendrian curves. Assume that there is a quadratic differential q on Ω in the kernel of an operator defined in [23] and every curve in Γ is a horizontal trajectory for q. Let $\ell_\Gamma : \Omega \to]0, +\infty[$ be the function that associates to a point $p \in \Omega$, the q-length of the leaf containing p. Then, the modulus of Γ is

$$M_q(\Gamma) = \int_\Omega \frac{|q|^2}{(\ell_\Gamma)^4} dL^3.$$

Introduction and statement of results

Holomorphic quadratic differentials on Riemann surfaces are well-studied objects that play a central role in Teichmüller theory; in particular in Teichmüller's theorem (see [1, 7, 9]) and because they are in one-to-one correspondance with measured foliation [8]. It leads us to curve families and especially to the modulus (or its reciprocal, the extremal length) of a curve family which is a classical conformal invariant studied since the work of Grötzsch and his famous length-area argument. The interplay between holomorphic quadratic differentials and moduli (or extremal lengths) of curve families was then naturally considered (see [10, 12, 13, 20]). The purpose of this work is to study the interplay between quadratic differentials and moduli of curve families in the setting of 3–dimensional spherical CR geometry.

A holomorphic quadratic differential on a Riemann surface X is a holomorphic section of the line bundle $K(X) \otimes K(X)$ where $K(X)$ is the canonical bundle of X. In a local holomorphic coordinate z, a quadratic differential writes as $q(z)dz^2$ for a holomorphic function q of z. A holomorphic quadratic differential naturally gives rise to a flat singular metric on X locally given by $\sqrt{|q(z)|}|dz|$. Thus, the following were defined.

- The q-length of a curve γ is

$$\ell_q(\gamma) = \int_\gamma \sqrt{|q|}.$$

- The q-area of X is

$$\text{Area}_q(X) = \int_X |q|.$$

1

Moduli Of Families Of Curves And Quadratic Differentials

Galina Vasil'evna Kuz'mina

Moduli Of Families Of Curves And Quadratic Differentials:

Moduli of Families of Curves and Quadratic Differentials G. V. Kuz'mina,1982 **Moduli of Families of Curves and Quadratic Differentials** Galina Vasilʹevna Kuzʹmina,1982 **Moduli of Families of Curves for Conformal and Quasiconformal Mappings** Alexander Vasil'ev,2004-10-19 The monograph is concerned with the modulus of families of curves on Riemann surfaces and its applications to extremal problems for conformal quasiconformal mappings and the extension of the modulus onto Teichm ller spaces The main part of the monograph deals with extremal problems for compact classes of univalent conformal and quasiconformal mappings Many of them are grouped around two point distortion theorems Montel s functions and functions with fixed angular derivatives are also considered The last portion of problems is directed to the extension of the modulus varying the complex structure of the underlying Riemann surface that sheds some new light on the metric problems of Teichm ller spaces *Harmonic Analysis and Partial Differential Equations* Patricio Cifuentes,2010-01-14 This volume contains the Proceedings of the 8th International Conference on Harmonic Analysis and Partial Differential Equations held in El Escorial Madrid Spain on June 16 20 2008 Featured in this book are papers by Steve Hoffmann and Carlos Kenig which are based on two mini courses given at the conference These papers present topics of current interest which assume minimal background from the reader and represent state of the art research in a useful way for young researchers Other papers in this volume cover a range of fields in Harmonic Analysis and Partial Differential Equations and in particular illustrate well the fruitful interplay between these two fields Recent Trends in Orthogonal Polynomials and Approximation Theory Jorge Arvesú,Francisco Marcellán,Andrei Martínez Finkelshtein,2010 This volume contains invited lectures and selected contributions from the International Workshop on Orthogonal Polynomials and Approximation Theory held at Universidad Carlos III de Madrid on September 8 12 2008 and which honored Guillermo Lopez Lagomasino on his 60th birthday This book presents the state of the art in the theory of Orthogonal Polynomials and Rational Approximation with a special emphasis on their applications in random matrices integrable systems and numerical quadrature New results and methods are presented in the papers as well as a careful choice of open problems which can foster interest in research in these mathematical areas This volume also includes a brief account of the scientific contributions by Guillermo Lopez Lagomasino **Conformally Invariant Metrics and Quasiconformal Mappings** Parisa Hariri,Riku Klén,Matti Vuorinen,2020-04-11 This book is an introduction to the theory of quasiconformal and quasiregular mappings in the euclidean n dimensional space where n is greater than 2 There are many ways to develop this theory as the literature shows The authors approach is based on the use of metrics in particular conformally invariant metrics which will have a key role throughout the whole book The intended readership consists of mathematicians from beginning graduate students to researchers The prerequisite requirements are modest only some familiarity with basic ideas of real and complex analysis is expected *Current Topics In Analytic Function Theory* Shigeyoshi Owa,Hari M Srivastava,1992-12-31 This

volume is a collection of research and survey articles by eminent and active workers around the world on the various areas of current research in the theory of analytic functions Many of these articles emerged essentially from the proceedings of and various deliberations at three recent conferences in Japan and Korea An International Seminar on Current Topics in Univalent Functions and Their Applications which was held in August 1990 in conjunction with the International Congress of Mathematicians at Kyoto at Kinki University in Osaka An International Seminar on Univalent Functions Fractional Calculus and Their Applications which was held in October 1990 at Fukuoka University and also the Japan Korea Symposium on Univalent Functions which was held in January 1991 at Gyeongsang National University in Chinju **Encyclopaedia of Mathematics** Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fme subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques Handbook of Complex Analysis Reiner Kuhnau,2004-12-09 Geometric Function Theory is that part of Complex Analysis which covers the theory of conformal and quasiconformal mappings Beginning with the classical Riemann mapping theorem there is a lot of existence theorems for canonical conformal mappings On the other side there is an extensive theory of qualitative properties of conformal and quasiconformal mappings concerning mainly a prior estimates so called distortion theorems including the Bieberbach conjecture with the proof of the Branges Here a starting point was the classical Scharz lemma and then Koebe s distortion theorem There are several connections to mathematical physics because of the relations to potential theory in the plane The Handbook of Geometric Function Theory contains also an article about constructive methods and further a Bibliography including applications eg to electroxtatic problems heat conduction potential flows in the plane A collection of independent survey articles in the field of GeometricFunction Theory Existence theorems and qualitative properties of conformal and quasiconformal mappings A bibliography including many hints to applications in electrostatics heat

conduction potential flows in the plane   *Harmonic and Complex Analysis and its Applications* Alexander Vasil'ev,2013-11-09 This volume highlights the main results of the research performed within the network Harmonic and Complex Analysis and its Applications HCAA which was a five year 2007 2012 European Science Foundation Programme intended to explore and to strengthen the bridge between two scientific communities analysts with broad backgrounds in complex and harmonic analysis and mathematical physics and specialists in physics and applied sciences It coordinated actions for advancing harmonic and complex analysis and for expanding its application to challenging scientific problems Particular topics considered by this Programme included conformal and quasiconformal mappings potential theory Banach spaces of analytic functions and their applications to the problems of fluid mechanics conformal field theory Hamiltonian and Lagrangian mechanics and signal processing This book is a collection of surveys written as a result of activities of the Programme and will be interesting and useful for professionals and novices in analysis and mathematical physics as well as for graduate students Browsing the volume the reader will undoubtedly notice that as the scope of the Programme is rather broad there are many interrelations between the various contributions which can be regarded as different facets of a common theme   Condenser Capacities and Symmetrization in Geometric Function Theory Vladimir N. Dubinin,2014-08-20 This is the first systematic presentation of the capacitory approach and symmetrization in the context of complex analysis The content of the book is original the main part has not been covered by existing textbooks and monographs After an introduction to the theory of condenser capacities in the plane the monotonicity of the capacity under various special transformations polarization Gonchar transformation averaging transformations and others is established followed by various types of symmetrization which are one of the main objects of the book By using symmetrization principles some metric properties of compact sets are obtained and some extremal decomposition problems are solved Moreover the classical and present facts for univalent and multivalent meromorphic functions are proven This book will be a valuable source for current and future researchers in various branches of complex analysis and potential theory   Boundary Behaviour of Conformal Maps Christian Pommerenke,2013-04-09 We study the boundary behaviour of a conformal map of the unit disk onto an arbitrary simply connected plane domain A principal aim of the theory is to obtain a one to one correspondence between analytic properties of the function and geometrie properties of the domain In the classical applications of conformal mapping the domain is bounded by a piecewise smooth curve In many recent applications however the domain has a very bad boundary It may have nowhere a tangent as is the case for Julia sets Then the conformal map has many unexpected properties for instance almost all the boundary is mapped onto almost nothing and vice versa The book is meant for two groups of users 1 Graduate students and others who at various levels want to learn about conformal mapping Most sections contain exercises to test the understand ing They tend to be fairly simple and only a few contain new material Pre requisites are general real and complex analyis including the basic facts about conformal mapping e g AhI66a 2 Non experts who want

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Table of Contents Moduli Of Families Of Curves And Quadratic Differentials

1. Understanding the eBook Moduli Of Families Of Curves And Quadratic Differentials
    - The Rise of Digital Reading Moduli Of Families Of Curves And Quadratic Differentials
    - Advantages of eBooks Over Traditional Books
2. Identifying Moduli Of Families Of Curves And Quadratic Differentials
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Moduli Of Families Of Curves And Quadratic Differentials
    - User-Friendly Interface
4. Exploring eBook Recommendations from Moduli Of Families Of Curves And Quadratic Differentials

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