Metric Rigidity Theorems On Hermitian Locally Symmetric Manifolds

Metric Rigidity Theorems on Hermitian Locally Symmetric ManifoldsCusps of Hermitian Locally Symmetric SpacesArithmetic Groups and Their GeneralizationsSeveral Complex Variables and Complex Geometry, Part IILie Groups IIntegrable Systems, Topology, and PhysicsRigidity Theorems on Hermitian Locally Symmetric SpacesAn Introduction to Intersection Homology Theory, Second EditionFoundations of Differential GeometryEncyclopaedia of MathematicsAlgebraic Analysis, Geometry, and Number TheoryCompactifications of Symmetric and Locally Symmetric SpacesOsaka Journal of MathematicsComplex Differential Geometry and Nonlinear Differential EquationsSaitama Mathematical JournalAlgebraic Geometry and Related TopicsSoviet Mathematics – DokladyHokkaido Mathematical JournalGanitRivista Di Matematica Della Università Di Parma Ngaiming Mok Matthew Thomas Stover Lizhen Ji Eric Bedford Mikio Ise Martin A. Guest Ka Fai Li Frances Kirwan Shōshichi Kobayashi Michiel Hazewinkel Japan-U.S. Mathematics Institute Armand Borel Yum-Tong Siu Chae-hyŏn Yang

this monograph studies the problem of characterizing canonical metrics on hermitian locally symmetric manifolds x of non compact compact types in terms of curvature conditions the proofs of these metric rigidity theorems are applied to the study of holomorphic mappings between manifolds x of the same type moreover a dual version of the generalized frankel conjecture on characterizing compact k hler manifolds are also formulated

this thesis explores the geometry at infinity for certain hermitian locally symmetric spaces let gamma su r 1 r be a maximal nonuniform arithmetic lattice determined by automorphisms of a hermitian form on k 2 r 1 where k is an imaginary quadratic field we give a formula for the number of cusps of x gamma where x is the hermitian symmetric space on which su r 1 r acts if r 1 and 2 r 1 is prime this completely determines the number of cusps for minimal finite volume orbifolds with x geometry and there are only finitely many commensurability classes of noncompact finite volume quotients of x containing a one cusped orbifold in the case r 1 which corresponds

to the complex hyperbolic plane we show that this holds for any n there are only finitely many commensurability classes of arithmetic lattices in su 2 1 which contain an n cusped orbifold

in one guise or another many mathematicians are familiar with certain arithmetic groups such as mathbf z or textrm sl n mathbf z yet many applications of arithmetic groups and many connections to other subjects within mathematics are less well known indeed arithmetic groups admit many natural and important generalizations the purpose of this expository book is to explain through some brief and informal comments and extensive references what arithmetic groups and their generalizations are why they are important to study and how they can be understood and applied to many fields such as analysis geometry topology number theory representation theory and algebraic geometry it is hoped that such an overview will shed a light on the important role played by arithmetic groups in modern mathematics titles in this series are co published with international press cambridge ma table of contents introduction general comments on references examples of basic arithmetic groups general arithmetic subgroups and locally symmetric spaces discrete subgroups of lie groups and arithmeticity of lattices in lie groups different completions of mathbb q and s arithmetic groups over number fields global fields and s arithmetic groups over function fields finiteness properties of arithmetic and s arithmetic groups symmetric spaces bruhat tits buildings and their arithmetic quotients compactifications of locally symmetric spaces rigidity of locally symmetric spaces automorphic forms and automorphic representations for general arithmetic groups cohomology of arithmetic groups k groups of rings of integers and k groups of group rings locally homogeneous manifolds and period domains non cofinite discrete groups geometrically finite groups large scale geometry of discrete groups tree lattices hyperbolic groups mapping class groups and outer automorphism groups of free groups outer automorphism group of free groups and the outer spaces references index review from mathematical reviews the author deserves credit for having done the tremendous job of encompassing every aspect of arithmetic groups visible in today s mathematics in a systematic manner the book should be an important guide for some time to come amsip 43

the first part of this book which is the second edition of the book of the same title is intended to provide readers with a brief introduction to the theory of lie groups as an aid to further study by presenting the fundamental features of lie groups as a starting point for understanding lie algebras and lie theory in general in the revisions for the second edition proofs of some of the results were added the second part of the book builds on some of the background developed in the first part offering an introduction to the theory of symmetric spaces a remarkable example of applications of lie group theory to differential geometry the book emphasizes this aspect by surveying the fundamentals of riemannian manifolds and by giving detailed explanations of the way in which geometry and lie group theory come together

ideas and techniques from the theory of integrable systems are playing an increasingly important role in geometry thanks to the development of tools from lie theory algebraic geometry symplectic geometry and topology classical problems are investigated more systematically new problems are also arising in mathematical physics a major international conference was held at the university of tokyo in july 2000 it brought together scientists in all of the areas

influenced by integrable systems this book is the second of three collections of expository and research articles this volume focuses on topology and physics the role of zero curvature equations outside of the traditional context of differential geometry has been recognized relatively recently but it has been an extraordinarily productive one and most of the articles in this volume make some reference to it symplectic geometry floer homology twistor theory quantum cohomology and the structure of special equations of mathematical physics such as the toda field equations all of these areas have gained from the integrable systems point of view and contributed to it many of the articles in this volume are written by prominent researchers and will serve as introductions to the topics it is intended for graduate students and researchers interested in integrable systems and their relations to differential geometry topology algebraic geometry and physics the first volume from this conference also available from the ams is differential geometry and integrable systems volume 308 conm 308 in the contemporary mathematics series the forthcoming third volume will be published by the mathematical society of japan and will be available outside of japan from the ams in the advanced studies in pure mathematics series

by using bochner technique of harmonic maps siu 15 16 proved a strong rigidity theorem concerning the complex structure of compact quotients of irreducible bounded symmetric domain of complex dimension 2 later in 9 mok proved a metric rigidity theorem which asserts that any hermitian metric of seminegative holomorphic bisectional curvature on a compact quotient of an irreducible bounded symmetric domain of rank 2 is necessarily a constant multiple of the canonical metric this theorem together with the theorem of siu yields a generalization of a special case of mostow s rigidity theorem 14 this thesis is an exposition of mok s results

now more that a quarter of a century old intersection homology theory has proven to be a powerful tool in the study of the topology of singular spaces with deep links to many other areas of mathematics including combinatorics differential equations group representations and number theory like its predecessor an introduction to intersection homology theory second edition introduces the power and beauty of intersection homology explaining the main ideas and omitting or merely sketching the difficult proofs it treats both the basics of the subject and a wide range of applications providing lucid overviews of highly technical areas that make the subject accessible and prepare readers for more advanced work in the area this second edition contains entirely new chapters introducing the theory of witt spaces perverse sheaves and the combinatorial intersection cohomology of fans intersection homology is a large and growing subject that touches on many aspects of topology geometry and algebra with its clear explanations of the main ideas this book builds the confidence needed to tackle more specialist technical texts and provides a framework within which to place them

introduces uniform constructions of most of the known compactifications of symmetric and locally symmetric spaces with emphasis on their geometric and topological structures relatively self contained reference aimed at graduate students and research mathematicians interested in the applications of lie theory and representation theory to analysis number theory algebraic geometry and algebraic topology

this collection of survey articles and research papers focuses on some of the most fruitful methods and ideas in the recently very active field of complex differential geometry and nonlinear differential equations the topics found in this 1984 summer research conference proceedings include the local embedding of cauchy riemann structures minimal varieties harmonic maps chern number inequalities for singular kahler surfaces the spectrum of the laplacian for kahler manifolds foliations vanishing theorems and complex finsler metrics papers of particular note include mok s survey on foliation techniques and vanishing theorems a succinct account of one of the most important methods in several complex variables which has recently produced some very good results and the research articles by cheng yau and sampson which contain highly significant new results both researchers and graduate students in the fields of several complex variables differential geometry and partial differential equations will find this material especially useful

the international symposium on algebraic geometry and related topics was held in incheon the republic of korea in 1992 in this work the speakers provide an expanded version of their talks which serve as an introduction to various aspects of mathematics

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