

Metric Rigidity Theorems On Hermitian Locally Symmetric Manifolds

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Hermitian and Symmetric matrices Part 2Siran Li - Isometric Immersions of Riemannian Manifolds into Euclidean Spaces, Revisited Informal Talk on Kahler-Einstein Geometry, Pt. 1 Rigidity for von Neumann algebras — Adrian Ioana — ICM2018]Hermitian and Skew Hermitian Matrix with Properties and Examples | Matrix Algebra Metric Rigidity Theorems On Hermitian to a locally symmetric Hermitian space (X, g) uniformized by an irreducible bounded symmetric domain ofrank:2. Then (M, h) is biholomorphically or conjugate-biholomor-phically isometric to (X, g). Asanapplication ofTheorem 1 weobtain the following. THEOREM 2. Let (X, g) be a compact locally symmetric Hermitian space uniformized by an irreducible bounded

Metric rigidity theorems on Hermitian locally symmetricspaces

I show that any Hermitian metric h on X carrying seminegative curvature must be a constant multiple of g. This can be applied to prove rigidity theorems of holomorphic maps from X into Hermitian manifolds (Y, k) carrying seminegative curvature. These results are also generalized to the case of quotients of finite volume.

Metric rigidity theorems on Hermitian locally symmetric spaces

Metric rigidity theorems on Hermitian locally symmetric spaces. Mok N(1). Author information: (1)Department of Mathematics, Columbia University, New York, NY 10027. Let X = Omega/Gamma be a compact quotient of an irreducible bounded symmetric domain Omega of rank >/=2 by a discrete group omega of automorphisms without fixed points.

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(PDF) Metric rigidity theorems on Hermitian locally ...

tive, positive, and semipositive Hermitian holomorphic vec-tor bundles are similarly defined. In this article I will state metric rigidity theorems on local-ly symmetric Hermitian spaces (X, g) of rank >2 in terms of the notions of seminegativity and semipositivity stated above. Sketches of proofs and applications of such unique-

Metric Rigidity Theorems on Hermitian Locally Symmetric Spaces

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Metric Rigidity Theorems On Hermitian Locally Symmetric ...

In this article we study metric rigidity theorems on locally symmetric Hermitian manifolds of rank ? 2 and of negative Ricci curvature. Our principal result is: THEOREM 1. Let (X, g) be a locally symmetric Hermitian manifold of finite volume uniformized by an irreducible bounded symmetric domain of rank > 2. Suppose h is a Hermitian metric on X such that (X, h) carries seminegative

Uniqueness Theorems of Hermitian Metrics of Seminegative ...

For the Hermitian holomorphic line bundle (L,h) over P(V) we use the holomorphic fiber coordinate A = in a neighborhood of We assert PROPOSITION 1 In terms of the coordinates given above A is a special holomorphic fiber coordinates for L adapted to h at {p} and, denoting the curvature form of (V,h) by e, we have = -41 duU A diia + dz' A As a consequence (L\$) is of seminegative curvature if and only if (V,h) is of seminegative curvature.

Metric Rigidity Theorems on Hermitian Locally Symmetric by ...

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 ...

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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.

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Metric Rigidity Theorems on Hermitian Locally Symmetric ...

The central theme of this reference book is the metric geometry of complex analysis in several variables. Bridging a gap in the current literature, the text focuses on the fine behavior of the Kobayashi metric of complex manifolds and its relationships to dynamical systems, hyperbolicity in the sense of Gromov and operator theory, all very active areas of research. The modern points of view expressed in these notes, collected here for the first time, will be of interest to academics working in the fields of several complex variables and metric geometry. The different topics are treated coherently and include expository presentations of the relevant tools, techniques and objects, which will be particularly useful for graduate and PhD students specializing in the area.

Metric Rigidity Theorems on Hermitian Locally Symmetric ...

The papers contained in this book address problems in one and several complex variables. The main theme is the extension of geometric function theory methods and theorems to several complex variables. The papers present various results on the growth of mappings in various classes as well as observations about the boundary behavior of mappings, via developing and using some semi group methods.

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Metric Rigidity Theorems on Hermitian Locally Symmetric ...

This volume comprises the proceedings of a conference on the geometric analysis of several complex variables held at POSTECH in June 1997. The conference was attended by scientists and students from around the globe. Each of the five plenary speakers at the conference gave a short course on a topic of current interest in the field. The lecture write-ups contain cogent and accessible information intended for a broad audience. The volume also includes a tutorial in several complex variables given by Kim and Krantz at the conference. This tutorial is geared toward helping the novice to understand the rest of the material in the book. The bibliographies of the papers give students and young mathematicians a valuable resource for future learning on the topic. This book provides a substantial overview on areas of current activity. Required background for understanding the text is a solid undergraduate education in mathematics and familiarity with first-year graduate studies in real and complex analysis. Some exposure to geometry would be helpful. The book is also suitable for use as a supplemental course text.

Metric Rigidity Theorems on Hermitian Locally Symmetric ...

The KSCV Symposium, the Korean Conference on Several Complex Variables, started in 1997 in an effort to promote the study of complex analysis and geometry. Since then, the conference met semi-regularly for about 10 years and then settled on being held biannually. The sixth and tenth conferences were held in 2002 and 2014 as satellite conferences to the Beijing International Congress of Mathematicians (ICM) and the Seoul ICM, respectively. The purpose of the KSCV Symposium is to organize the research talks of many leading scholars in the world, to provide an opportunity for communication, and to promote new researchers in this field.

