

# Metric Rigidity Theorems On Hermitian Locally Symmetric Manifolds

Metric Rigidity Theorems on Hermitian Locally Symmetric Manifolds Complex, Contact and Symmetric Manifolds Gluing Locally Symmetric Manifolds: Asphericity and Rigidity Generalized Symmetric Spaces Compactifications of Symmetric and Locally Symmetric Spaces Riemannian Manifolds and Homogeneous Geodesics Analytic Torsion and L 2 - Torsion of Compact Locally Symmetric Manifolds Several Complex Variables and Complex Geometry, Part II The Local Geometry of the Moduli Space of Calabi-Yau Manifolds The Yokohama Mathematical Journal Symmetric Spaces of Order K Differential Geometry of Manifolds Israel Journal of Mathematics Rendiconti del Seminario matematico Bulletin of the Belgian Mathematical Society, Simon Stevin Mathematical Reviews Abstracts of Contributed Papers for the Discussion Groups Mathematics Soochow Journal of Mathematics Differential Geometry and Its Applications Ngaiming Mok Oldrich Kowalski Tu Tam Nguyen Phan O. Kowalski Armand Borel Valerii Berestovskii Werner Müller Eric Bedford Dipankar Ray Adnan Sayed Hashem Al-Aqeel Uday Chand De Mo'atsah ha-le'umit le-mehkar ule-fituah (Israel) Seminario matematico (Turin, Italy) Ernst Schmutzler Vladimir Igorevich Arnol'd János Szente Metric Rigidity Theorems on Hermitian Locally Symmetric Manifolds Complex, Contact and Symmetric Manifolds Gluing Locally Symmetric Manifolds: Asphericity and Rigidity Generalized Symmetric Spaces Compactifications of Symmetric and Locally Symmetric Spaces Riemannian Manifolds and Homogeneous Geodesics Analytic Torsion and L 2 - Torsion of Compact Locally Symmetric Manifolds Several Complex Variables and Complex Geometry, Part II The Local Geometry of the Moduli Space of Calabi-Yau Manifolds The Yokohama Mathematical Journal Symmetric Spaces of Order K Differential Geometry of Manifolds Israel Journal of Mathematics Rendiconti del Seminario matematico Bulletin of the Belgian Mathematical Society, Simon Stevin Mathematical Reviews Abstracts of Contributed Papers for the Discussion Groups Mathematics Soochow Journal of Mathematics Differential Geometry and Its Applications Ngaiming Mok Oldrich Kowalski Tu Tam Nguyen Phan O. Kowalski Armand Borel Valerii Berestovskii Werner Müller Eric Bedford Dipankar Ray Adnan Sayed Hashem Al-Aqeel Uday Chand De Mo'atsah ha-le'umit le-mehkar ule-fituah (Israel) Seminario matematico (Turin, Italy) Ernst Schmutzler Vladimir Igorevich Arnol'd János Szente

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

contains research and survey articles by well known and respected mathematicians on recent developments and research trends in differential geometry and topology dedicated in honor of lieven vanhecke as a tribute to his many fruitful and inspiring contributions to these fields papers

include all necessary introductory and contextual material to appeal to non specialists as well as researchers and differential geometers

we use the reflection group trick to glue manifolds with corners that are borel serre compactifications of locally symmetric spaces of noncompact type and obtain aspherical manifolds we call these piecewise locally symmetric manifolds this class of spaces provide new examples of aspherical manifolds whose fundamental groups have the structure of a complex of groups these manifolds typically do not admit a cat 0 metric we prove that any self homotopy equivalence of such manifolds is homotopic to a homeomorphism we compute the group of self homotopy equivalences of such a manifold and show that there are examples in which this group is infinite

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 book is devoted to killing vector fields and the one parameter isometry groups of riemannian manifolds generated by them it also provides a detailed introduction to homogeneous geodesics that is geodesics that are integral curves of killing vector fields presenting both classical and modern results some very recent many of which are due to the authors the main focus is on the class of riemannian manifolds with homogeneous geodesics and on some of its important subclasses to keep the exposition self contained the book also includes useful general results not only on geodesic orbit manifolds but also on smooth and riemannian manifolds lie groups and lie algebras homogeneous riemannian manifolds and compact homogeneous riemannian spaces the intended audience is graduate students and researchers whose work involves differential geometry and transformation groups

in this paper we study the analytic torsion and the  $L^2$  torsion of compact locally symmetric manifolds we consider the analytic torsion with respect to representations of the fundamental group which are obtained by restriction of irreducible representations of the group of isometries of the underlying symmetric space the main purpose is to study the asymptotic behavior of the analytic torsion with respect to sequences of representations associated to rays of highest weights

in chapter i we give an account of the important theorems and results needed in the subsequent work we also include all the references from which a general point of view can be obtained chapter ii is a continuation of chapter i where we consider only one specific concept lie groups and homogeneous spaces chapter iii deals with riemannian locally symmetric manifolds the theorems and results in this chapter are included with their proofs since both are very relevant for the work in the coming chapters the main original contributions of this thesis are presented in chapters iv and v in chapter iv riemannian s manifolds and riemannian symmetric spaces in the sense of a j ledger are defined we also define riemannian s regular manifolds and riemannian k regular symmetric spaces we discuss in detail the case when k is an odd positive integer and we establish

some results concerning this case the whole of chapter v is concerned with riemannian locally 5 regular symmetric manifolds our treatment of these manifolds is in some way similar to that adopted by gray s for 3 regular symmetric manifolds we will also show that riemannian locally 5 regular symmetric manifolds diverge from riemannian locally 3 regular symmetric manifolds finally the appendix contains calculations needed in chapter v section 5 3

differential geometry of manifolds discusses the theory of differentiable and riemannian manifolds to help students understand the basic structures and consequent developments since the tangent vector plays a crucial role in the study of differentiable manifolds this idea has been thoroughly discussed in the theory of riemannian geometry some new proofs have been included to enable the reader understand the subject in a comprehensive and systematic manner this book will also benefit the postgraduate students as well as researchers working in the field of differential geometry and its applications to general relativity and cosmology

this volume is a celebration of the state of mathematics at the end of the millennium produced under the auspices of the international mathematical union imu the book was born as part of the activities of world mathematical year 2000 it consists of 28 articles written by influential mathematicians authors of 14 contributions were recognized in various years by the imu as recipients of the fields medal from k f roth fields medalist 1958 to w t gowers fields medalist 1998

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