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Metric Rigidity Theorems On Hermitian

This monograph studies the problem of characterizing canonical metrics on Hermitian locally symmetric manifolds X of non-

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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

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Metric Rigidity

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bounded torsion such that the curvature of the Hermitian manifold (M, h) is bounded between two negative constants. Then $\pi_1(M)$ is of rank 1. Remarks: (i) Theorem 4 for the case in which $\pi_1(M)$ is the fundamental group of a compact quotient of the unit ball in \mathbb{C}^n is a consequence of the super-rigidity

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theorem of Margulis (11). (ii) Theorem 5 for h a Kahler metric is a result of Yang (12).

Metric rigidity theorems on Hermitian locally symmetric spaces

The Hermitian metric rigidity theorem on locally homogeneous holomorphic vector bundles -- ch. 11 a rigidity theorem for holomorphic mappings between irreducible

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Hermitian symmetric
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Metric Rigidity Theorems on Hermitian Locally Symmetric Spaces - NASA/ADS Let $X = \Omega/\Gamma$ be a compact quotient of an irreducible bounded symmetric domain Ω of rank ≥ 2 by a discrete group ω of automorphisms without fixed points. It is well known that the Kähler-

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Einstein metric g on X carries seminegative curvature (in the sense of Griffiths).

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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

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from X into Hermitian...

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Metric rigidity theorems on Hermitian locally symmetric spaces. Mok N(1).

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(1)Department of Mathematics, Columbia University, New York, NY 10027. Let $X = \Omega/\Gamma$ be a compact quotient of an

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irreducible bounded symmetric domain Ω of rank ≥ 2 by a discrete group Γ of automorphisms without fixed points.

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Abstract. We show that the canonical isometric imbedding of the symplectic group $Sp(n)$ into R^{4n^2} gives the

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least-dimensional
isometric imbedding
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into the Euclidean
space, even in the local
standpoint. We prove

this result by
calculating the quantity
 ρ_G determined by the
curvature of $Sp(n)$,
which serves as an
obstruction to the
existence of local
isometric imbeddings.

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manifolds. [Ngaiming
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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

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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

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Later in, Mok proved a
metric rigidity theorem
which asserts that any
Hermitian metric of
seminegative
holomorphic

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bisectional curvature
on a compact quotient
of an irreducible
bounded symmetric
domain of rank ≥ 2 is
necessarily a constant
multiple of the
canonical metric.

Rigidity theorems on Hermitian locally symmetric spaces.

The finite-dimensional
spectral theorem says
that any Hermitian
matrix can be
diagonalized by a

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unitary matrix, and that the resulting diagonal matrix has only real entries. This implies that all

eigenvalues of a Hermitian matrix A with dimension n are real, and that A has n linearly independent eigenvectors .

Hermitian matrix - Wikipedia

By means of either subelliptic estimates or maximum principle,

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some rigidity theorems are established to characterize Sasakian pseudo-Einstein manifolds among Sasakian manifolds with constant pseudo-Hermitian scalar curvature and Sasakian space forms among Sasakian pseudo-Einstein manifolds, respectively.

Rigidity Theorems for Complete Sasakian Manifolds

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L that is induced by g and the Hermitian

metric on L . As usual, we denote by $\Omega_p(\Sigma)$ the space of p -forms on Σ , and by $\Omega_p(L)$ the space of sections of $\Lambda^p T^* \Sigma \otimes L$. Integrating the bundle metrics over Σ yields inner products on $\Omega_p(\Sigma)$ and $\Omega_p(L)$.

Fixing once and for all a smooth background metric connection ∇_0 on L , any other metric

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