

## METRIC RIGIDITY THEOREMS ON HERMITIAN LOCALLY SYMMETRIC MANIFOLDS

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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. On the other hand, let  $(X, g)$  be an irreducible compact Hermitian symmetric manifold of rank  $2$ .

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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.

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Metric Rigidity Theorems on Hermitian Locally Symmetric Spaces - NASA/ADS Let  $X = \Gamma \backslash G/K$  be a compact quotient of an irreducible bounded symmetric domain  $D$  of rank  $2$  by a discrete group  $\Gamma$  of automorphisms without fixed points. It is well known that the Kähler-Einstein metric  $g$  on  $X$  carries seminegative curvature (in the sense of Griffiths).

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The rigidity theorem of Mostow asserts that for a compact locally symmetric Riemannian manifold of negative Ricci curvature, the manifold is determined up to isometry and normalizing constants by its fundamental group among the class of such manifolds, with the obvious exceptions involving

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We prove a Hermitian metric rigidity theorem for leafwise symmetric Kähler metrics on compact manifolds with smooth foliations. This provides applications to the study of the geometry of foliations as well as Kähler manifolds that contain some symmetric geometry.

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On a Hermitian manifold the metric can be written in local holomorphic coordinates  $(z, \bar{z})$ . The form  $g$  is a symmetric bilinear form on  $T_x M$ , the complexified tangent bundle. Since  $g$  is equal to its conjugate it is the complexification of a real form on  $TM$ . The symmetry and positive-definiteness of  $g$  on  $TM$  follow from the corresponding properties of  $h$ . In local holomorphic coordinates the metric ...

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Like a Riemannian metric, a Hermitian metric consists of a smoothly varying, positive definite inner product on the tangent bundle, which is Hermitian with respect to the complex structure on the tangent space at each point. As in the Riemannian case, such metrics always exist in abundance on any complex manifold. If the skew symmetric part of such a metric is

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