

complex convexity and analytic pdf

A set in complex Euclidean space is called \mathbb{C} -convex if all its intersections with complex lines are contractible, and it is said to be linearly convex if its complement is a union of complex hyperplanes. These notions are intermediates between ordinary geometric convexity and pseudoconvexity. Their ...

Complex Convexity and Analytic Functionals | SpringerLink

COMPLEX CONVEXITY BY H. J. BREMERMAN) 1. Introduction. The first part of the present paper is a contribution to the theory of regions of holomorphy in n complex dimensions.

COMPLEX CONVEXITY - American Mathematical Society

Summary. In this central chapter we turn to complex convexity. We establish the basic properties of linearly convex and \hat{a} -convex subsets of complex projective space $\hat{a}, \hat{a}^{\text{TM}}$ n . The concept of \hat{a} -convexity is the natural complex analogue to usual convexity, and we examine to what extent this analogy holds.

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PDF | Calderón's complex interpolation method presents difficulties being applied to pairs of quasi-Banach spaces. We show, that these difficulties disappear in the case of pairs of spaces with ...

(PDF) Analytic Convexity and Complex Interpolation

ANALYTIC CONVEXITY AND COMPLEX INTERPOLATION 197 Theorem 1 Suppose that there exist two A -convex spaces \mathcal{L} and \mathcal{T} both contained with continuous inclusions in a Hausdorff topological vector space \mathcal{S} , and

Analytic Convexity and Complex Interpolation* - dmle.icmat.es

Criteria for complex strict convexity and complex midpoint locally uniform convexity of above spaces are also deduced. Abstract and Applied Analysis is a mathematical peer-reviewed, Open Access journal devoted exclusively to the publication of high-quality research papers in the fields of abstract and applied analysis.

Complex Convexity of Musielak-Orlicz Function Spaces

Convexity is the key concept of functional analysis, but apart from some notable exceptions, it has played a relatively minor role in several complex variables theory.

CONVEXITY IN COMPLEX ANALYSIS - matwbn.icm.edu.pl

In complex geometry and analysis, the notion of convexity and its generalizations play an important role in understanding function behavior. Examples of classes of functions with a rich structure are, in addition to the convex functions, the subharmonic functions and the plurisubharmonic functions.

Complex convexity - Wikipedia

HYPERBOLIC CONVEXITY AND THE ANALYTIC FIXED POINT FUNCTION ALEXANDER YU. SOLYNIN ... If equality occurs in (1) or (2), then R coincides with the complex sphere \mathbb{C} slit along a closed segment of R .

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