Finitely generated ideals in certain function algebras.

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Journal of Functional Analysis

Volume 7, Issue 1, February 1971, Pages 212-215

Finitely generated ideals in certain function algebras

Norberto Kerzman [a, b] ... Alexander Nagel [a, b]

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https://doi.org/10.1016/0022-1236(71)90053-X

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Abstract

We give a proof, in a stronger form, of a conjecture proposed by A. Gleason. Assume D is a strongly pseudoconvex domain D â‹ C2 with smooth boundary and let h: DÌ„ â†' C be any function continuous in $D\bar{I}$„ and holomorphic in D. Assume further that (a, b) $\ddot{I}\mu D$, $h(a, b) = 0$. Then

(â^—) h(z1, z2) = (z1 â^' a) h1(z1, z2) + (z2 â^' b) h2(z1, z2)

, where h_1 and h_2 are continuous in $D\bar{I}$„ and holomorphic in D. In addition we prove that if h satisfies certain HÃ¶lder conditions at some points in $\hat{a}^{\wedge},D$, then one can obtain h_1 and h_2, which also satisfy those HÃ¶lder conditions at the same points (Theorem 1).

Our proof relies on a vanishing cohomology theorem which we prove using a recent [illegible] or solutions of the equation â^‚u = Æ'.

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