



Theory of Stein Spaces (Grundlehren der mathematischen Wissenschaften)

By H. Grauert, R. Remmert

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1. The classical theorem of Mittag-Leffler was generalized to the case of several complex variables by Cousin in 1895. In its one variable version this says that, if one prescribes the principal parts of a meromorphic function on a domain in the complex plane e , then there exists a meromorphic function defined on that domain having exactly those principal parts. Cousin and subsequent authors could only prove the analogous theorem in several variables for certain types of domains (e. g. product domains where each factor is a domain in the complex plane). In fact it turned out that this problem can not be solved on an arbitrary domain in e_m , $m \geq 2$. The best known example for this is a "notched" bicylinder in e_2 . This is obtained by removing the set $\{(z, z) \in e \mid |z| \sim 1, |z| \sim 1\}$, from the unit bicylinder, $\sim := \{(z, z) \in e \mid |z| < 1, |z| < 1\}$. This domain D has the property that every function holomorphic on D continues to a function holomorphic on the entire bicylinder. Such a phenomenon never occurs in the theory of one complex variable. In fact, given a domain $G \subset e$, there exist functions holomorphic on G which are singular at every boundary point of G .

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Editorial Review

Review

"Theory of Stein Spaces provides a rich variety of methods, results, and motivations - a book with masterful mathematical care and judgement. It is a pleasure to have this fundamental material now readily accessible to any serious mathematician."

J. Eells in Bulletin of the London Mathematical Society (1980)

"Written by two mathematicians who played a crucial role in the development of the modern theory of several complex variables, this is an important book."

J.B. Cooper in Internationale Mathematische Nachrichten (1979)

Language Notes

Text: English, German (translation)

About the Author

Hans Grauert (b. 1930 in Harem /Ems, Germany) and Reinhold Remmert (b. 1930 in Osnabrück, Germany) met at the University of Münster, where they both studied mathematics and physics from 1949 to 1954. In 1950 they were invited by Heinrich Behnke and Karl Stein to attend their "Oberseminar", which was held on Saturdays, for 2 hours from 9 a.m.

Five years after the tragic events of World War 2, Behnke's old friend Henri Cartan visited Münster. His lecture on recent developments in the theory of "Several Complex Variables" was a real eye-opener for the young students and had a strongly formative influence on them: indeed this was to determine the course of their scientific research careers from then on.

In June 1954 Grauert and Remmert received their respective doctorates from the University of Münster. In 1957 they both became lecturer (Privatdozent) there. In 1959 resp. 1960, Grauert and Remmert were appointed full professors at Göttingen resp. Erlangen.

The original German edition of "Theory of Stein Spaces" was written at a time when complex spaces, coherent analytic sheaves and the so-called Theorems A and B had already become established notions and theorems. Dedicated to Karl Stein, the book was published in 1977, and the English edition was to follow in 1979. The first announcement of the book, in Springer's promotion, consisted of the picture reproduced on the inside cover flap of this book, taken during the boat trip of the annual Bonn Arbeitstagung some time earlier, showing three men on a boat, with the minimalistic caption "Grundlehren 227".

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