

Lecture Notes in Mathematics

Edited by A. Dold and B. Eckmann

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Complex Analysis

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FOREWORD

A summer seminar in complex analysis took place in Trieste (Italy) during July 1980 at the International Centre for Theoretical Physics of the International Atomic Energy Agency (Vienna, Austria) and the United Nations Educational, Scientific and Cultural Organization (Paris, France), on the invitation of its Director, Professor Abdus Salam. The course was organised by the late Professor Aldo Andreotti and myself. The main lectures included the following:

M. G. Eastwood	Twistor Theory (The Penrose Transform)
L. Lemaire and J. C. Wood	Introduction to Analysis on Complex Manifolds
M. Nacinovich	Complex Analysis and Complexes of Differential Operators
M. S. Narasimhan	Deformations of Complex Structures and Holomorphic Vector Bundles
W. Stoll	Introduction to Value Distribution Theory of Meromorphic Maps
D. Sundararaman	Compact Hausdorff Transversally Holomorphic Foliations
G. Trautman	Holomorphic Vector Bundles and Yang Mills Fields

In addition to these main lecture courses there were mini-courses (3 to 6 lectures), as well as research lectures. The present volume is a collection of revised versions of some of these. They are largely self-contained; however, an accessible reference during the summer was Complex Analysis and Its Applications, edited by A. Andreotti, J. Eells, and F. Gherardelli, ICTP (1976, Volumes 1 - 3).

I would like to thank all the lecturers (named and unnamed) for their efforts during the course. I know that in turn they join me in expressing our appreciation of the truly exceptional administrative and secretarial staff of the Centre.

James Eells

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