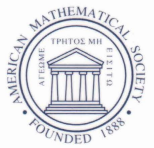
CONTEMPORARY MATHEMATICS

368

Geometric Analysis of PDE and Several Complex Variables

Dedicated to François Treves

Sagun Chanillo
Paulo D. Cordaro
Nicholas Hanges
Jorge Hounie
Abdelhamid Meziani
Editors



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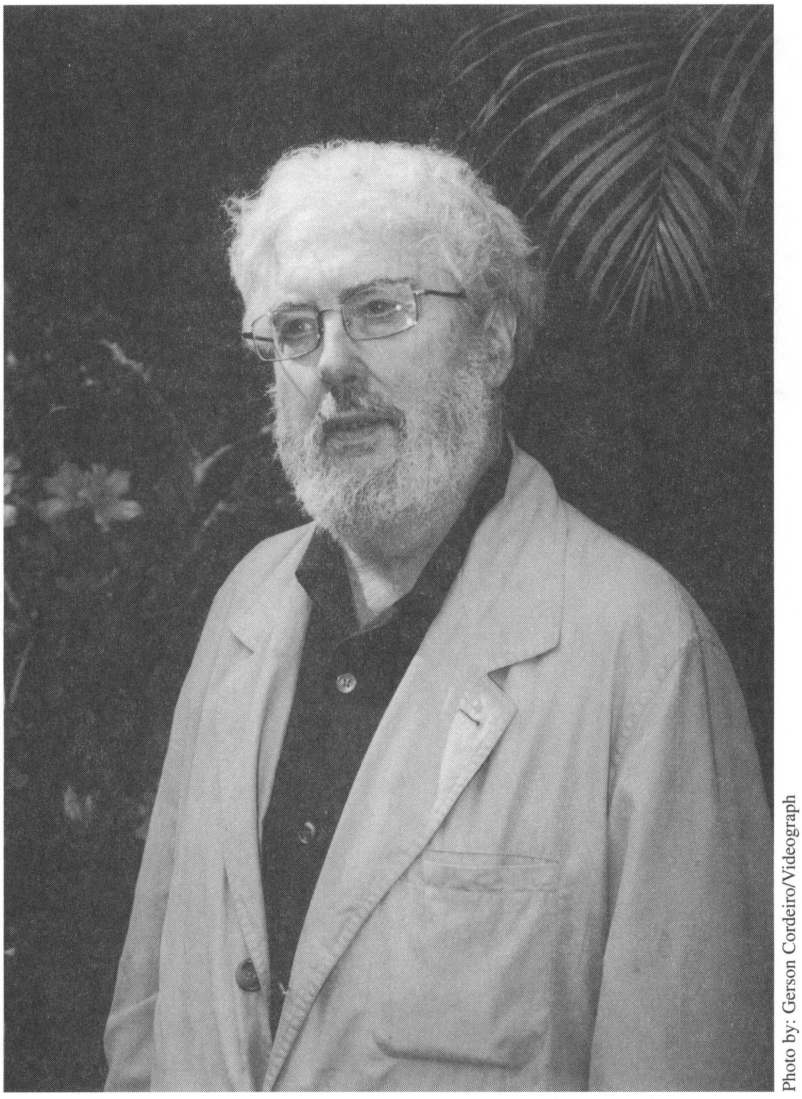

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François Treves

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Dedicated
to
François Treves

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Preface

This volume is a collection of papers dedicated to our teacher, colleague and friend, François Treves. Many topics from analysis are discussed, reflecting Treves' broad contributions and interests.

Some of the papers presented here are expanded versions of lectures given during the Workshop on Geometric Analysis of PDE and Several Complex Variables. This was held in Serra Negra, São Paulo, Brazil in August 2003.

During the Workshop, we celebrated the recent election of François to the Brazilian Academy of Sciences.

We thank the CNPq (Brazil), FAPESP (Brazil), IM-AGIMB (Brazil), NSF (Grant 0303784), Temple University, University of São Paulo and Federal University of São Carlos for financial support for the Workshop.

Sagun Chanillo
Paulo D. Cordaro
Nicholas Hanges
Jorge Hounie
Abdelhamid Meziani

This volume is dedicated to François Treves, who made substantial contributions to the geometric side of the theory of partial differential equations (PDEs) and several complex variables. One of his best-known contributions, reflected in many of the articles here, is the study of hypo-analytic structures.

An international group of well-known mathematicians has contributed to the volume. Articles generally reflect the interaction of geometry and analysis that is typical of Treves's work, such as the study of the special types of partial differential equations that arise in conjunction with CR-manifolds, symplectic geometry, or special families of vector fields. There are many topics in analysis and PDEs covered here, unified by their connections to geometry.

The material is suitable for graduate students and research mathematicians interested in geometric analysis of PDEs and several complex variables.

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