

Introduction

This volume contains the Proceedings of the CIRM-FBK Conference “Cohomology of Complex Manifolds and Special Structures, II” held in Levico Terme (Trento), July 5-9, 2021, sponsored by the CIRM-FBK and by the project PRIN 2017 “Real and Complex Manifolds: Topology, Geometry and holomorphic dynamics”, Research Units of University of Parma and University of Roma 3 and organized by Costantino Medori, Massimiliano Pontecorvo and Adriano Tomassini.

The volume contains thirteen papers and two survey papers written by twenty-three different experts. All papers are in English and have been refereed. All contributions are in their final form and no part of them will be submitted elsewhere. The papers cover a wide variety of research topics in differential geometry, complex geometry, CR geometry, algebraic topology, homogeneous spaces, almost complex geometry, almost Hermitian geometry, generalized Kähler geometry, pseudo-Riemannian geometry, symplectic geometry, algebraic and complex surfaces.

The volume offers the state-of-the-art contributions in the context of current research trends. The final result is a challenging panoramic view of problems connecting together a wide area. The conference encouraged the fruitful exchange of ideas, initiating collaborations between the participants.

Parma, Roma, January 2023

Costantino Medori, Massimiliano Pontecorvo and Adriano Tomassini