

# CONTEMPORARY MATHEMATICS

681

## Analysis and Geometry in Several Complex Variables

Workshop on  
Analysis and Geometry in Several Complex Variables  
January 4–8, 2015  
Texas A&M University at Qatar, Doha, Qatar

Shiferaw Berhanu  
Nordine Mir  
Emil J. Straube  
Editors



American Mathematical Society

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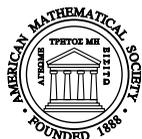
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## Preface

This volume consists of a collection of papers on several complex variables, CR manifolds, and related partial differential equations. Most of the papers are based on lectures given during the workshop on Analysis and Geometry in Several Complex Variables that was held on the campus of Texas A&M University at Qatar in Doha, January 4–8, 2015.

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- The National Science Foundation, U.S.A. (DMS 1500361)
- Texas A&M University at Qatar
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This volume contains the proceedings of the workshop on Analysis and Geometry in Several Complex Variables, held from January 4–8, 2015, at Texas A&M University at Qatar, Doha, Qatar.

This volume covers many topics of current interest in several complex variables, CR geometry, and the related area of overdetermined systems of complex vector fields, as well as emerging trends in these areas.

Papers feature original research on diverse topics such as the rigidity of CR mappings, normal forms in CR geometry, the  $\bar{\partial}$ -Neumann operator, asymptotic expansion of the Bergman kernel, and hypoellipticity of complex vector fields. Also included are two survey articles on complex Brunn-Minkowski theory and the regularity of systems of complex vector fields and their associated Laplacians.

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