

Preface

This volume contains papers presented at the workshops A new approach in theoretical and applied methods in algebra and analysis, Constanta, Romania, April 4-6, 2013, supported by the grant CNCS-UEFISCDI PN-II-ID-WE-2012-4-169, and Workshop on Algebraic and Analytic Number Theory and their Applications, Constanta, Romania, May 23-24, 2013, supported by the grant CNCS-UEFISCDI PN-II-ID-WE-2012-4-161.

The first workshop was organized by the Faculty of Mathematics and Computer Science of the Ovidius University, Constanta, in collaboration with Institute of Mathematics of the National Academy of Sciences of Ukraine, Centre for Systems and Information Technologies, University of Nova Gorica, Slovenia, Faculty of Mathematics and Computer Science, University of Bucharest, and "Simion Stoilow" Institute of Mathematics of the Romanian Academy.

The second workshop was organized by the Faculty of Mathematics and Computer Science of the Ovidius University, Constanta, in collaboration with "Simion Stoilow" Institute of Mathematics of the Romanian Academy, "Sidi Mohamed Ben Abdellah" University of Fes, Morocco, Faculty of Mathematics and Computer Science of the "Babes-Bolyai" University, Cluj-Napoca, and Faculty of Physics, University of Bucharest.

More information about these workshops can be found at the addresses:

http://amaa-2013.wikispaces.com/home/ and http://math.univ-ovidius.ro/Workshop/2013/Number-Theory

The organizers gratefully acknowledge the financial support awarded by the National Council for Scientific Research in Romania (CNCS-UEFISCDI) through the grants numbers PN-II-ID-WE-2012-4-169 (director of the grant: Cristina Flaut) and PN-II-ID-WE-2012-4-161 (director of the grant: Diana Savin).

On behalf of the Organizing Committees, Cristina Flaut and Diana Savin