

Preface

Annual Conferences in Analytic and Algebraic Geometry have been organized by Faculty of Mathematics and Computer Science of the University of Łódź since 1980. Until now, proceedings of these conferences (mainly in Polish) have comprised educational materials describing current state of branches of mathematics mentioned in the conference title, new approaches to known topics, and new proofs of known results (see the Internet page: <http://konfrogi.math.uni.lodz.pl/>).

The content of this volume consists of new results and survey articles concerning real and complex algebraic geometry, singularities of curves and hypersurfaces, invariants of singularities, algebraic theory of derivations and other topics.

This volume is dedicated to three mathematicians celebrating in 2017 the jubilees of 70th and 60th birth anniversaries: Arkadiusz Płoski (born in 1947), Kamil Rusek (born in 1947) and Krzysztof Kurdyka (born in 1957). All of them are closely connected with our Conferences in Analytic and Algebraic Geometry. The first one has been participating in the conferences since 1982, the second one since 1983 and third one since 2008. Thanks to their mathematical vigor and stimulation the conferences become more interesting and fruitful. On next pages we provide short scientific biographies of each of them.

Additionally, we would like to commemorate the fifth anniversary of Shreeram Shankar Abhyankar death whose views on mathematics we share. The artistic manifest of his approach to mathematics is his poem written in 1970. In this volume we present this poem along with two translations into Polish.

We would like to thank many people for the help in preparing the volume. In particular, Michał Jankowski for designing the cover, referees for preparing reports of all the articles and all participants of the Conferences for their good humor and enthusiasm during the conferences.

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