

# Preface

In the year 2014, the 100th anniversary of birthday of a remarkable mathematician, Professor Zygmunt Zahorski, is passing.

A hierarchy of the Zahorski classes of sets and functions or proof of the Kolmogorov hypothesis have found a permanent place in the history of the greatest mathematical achievements. This extraordinary occasion for memories could not be wasted, especially by us, His former students, fascinated till today by His knowledge and charisma. Such facts and feelings turned into this monograph dedicated to the memory of Professor Zahorski. We have divided the monograph into three parts.

The first part contains the biography, memoirs, unique pieces of information and, which is the most important, Professor's letter on derivatives, not published till now. The second part was created on the basis of papers of our respectable Guests. Subjects of these works refer to Professor's interests. Finally, in the third part there are included the papers of scientists presently employed in the Institute of Mathematics at Silesian University of Technology – the Institute, in creation of which Professor contributed and the unquestionable mainstay of which He always was.

The monograph is ended by the manuscript of Professor's paper, not published till now. For the convenience of potential readers rewritten and edited by us, but according to Professor's remarks.

In the course of elaborating this monograph we have discovered a number of new interesting facts about Professor. We are very glad that the remembrance of Professor is still vivid and His works constantly inspire mathematicians for research – we have been convinced of that by participating in the annual International Summer Conference on Real Functions Theory organized for many years by the Slovak Academy of Sciences, University of Łódź, Łódź University of Technology and Pomeranian University in Słupsk.

We declare our sincere gratitude to Professor Janina Śladkowska-Zahorska for her kindness towards our plans of publishing this monograph as well as for giving us the access to the materials. We would like to express our thanks to Professor Władysław Wilczyński for sharing with us the photographs and the copy of Professor Zahorski's manuscript, as well as for many valuable pieces of information. Furthermore, we are grateful to Anna Grajner, Edyta Hetmaniok, Ewelina Mainka-Niemczyk, Iwona Nowak, Mariusz Pleszczyński and Alicja Wróbel for their help in preparing this monograph.

We thank very much all the Authors for their creative contribution in preparing this elaboration. We also express our gratitude to the Reviewers for their hard work and critical, but constructive remarks, which were very helpful in maintaining the high scientific level of the monograph. We hope that the monograph will become a source of valuable information and inspiration in the scientific work for the respected Readers.

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