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Foreword

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Foreword

This volume contains papers presenting some results lectured or obtained at the 33rd Winter School on Abstract Analysis 2005.

Traditionally, the conference consisted of two parts. The part devoted to analysis was held from January 15 to January 22 in Lhota nad Rohanovem and the part devoted to topology and set theory was held from January 29 to February 5 in Raspenava in North Bohemia.

In both parts, several invited lectures, or series of lectures, were organized.

In the analysis part, five series of invited lectures were given. The series delivered by Profesor T. Körner from University of Cambridge had title “Greedy Summation” and dealt with methods of summation of trigonometric series. Professor A. Andretta from University of Milano lectured on the Wadge hierarchy and related problems from descriptive set theory. Professor M. Chlebík from Max Planck Institute Leipzig gave three talks on rearrangements of sets and functions in connections with existence of symmetric solutions of some problems. Professor P. Hájek from Czech Academy of Sciences talked on polynomials in Banach spaces. Professor M. Raja from Murcia University gave a series of talks with the title “Approximation by Delta-convex Functions and More Things”.

The carrying themes of the topology week were modern methods of set theory, mainly forcing and Boolean algebras. These topics were presented in three series of invited lectures. Professor H. Mildenerger spoke on “An Introduction to Forcings with Creatures”, Professor M. Džamonja gave a series “Partition Relations on Very Dense Sets”, and Professor G. Plebanek spoke on “Independent Families in Boolean Algebras”.

As usual, we organized a traditional problem sessions, where a number of problems were presented. We thank all the participants for their contribution that made 33rd Winter School a very successful and pleasant event.

To speed the publication of the proceedings, the full responsibility for the linguistic form of the papers was left to the authors.

We appreciate very much the work done by our colleagues and also many foreign participants for helping the organizing committee. We are obliged to the managing editor Petr Simon for preparing this volume of the journal devoted to the Winter School.

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