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## Foreword

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## **Foreword**

*This volume contains papers presenting some results lectured or obtained at the 32nd Winter School on Abstract Analysis 2004.*

*Traditionally, the conference consisted from two parts. The part devoted to analysis was held from January 17 to January 24 in Lhota nad Rohanovem and the part devoted to topology and set theory was held from January 31 to February 7 in Doksy u České Lípy.*

*In both parts, several invited lectures, or series of lectures, were organized. In the analysis part, seven series of invited lectures were given.*

*The series delivered by Profesor D. Fremlin from University of Essex had title "Equidistributed and well distributed sequences". Professor D. Mauldin from University of North Texas lectured on geometry and measurability problems. Professor Z. Buczolic from Eötvös Loránd University gave three talks on counting and convergence in ergodic theory. Profesor B. Cascales from Murcia University talked on  $\sigma$ -fragmentability and the Linderlöf property. Professors G. Debs and J. Saint-Raymond from Université Paris VI gave a series of talks with the title "Compact covering image of a Borel set is Borel". Professor A. Olevskii lectured on non-classical representation of functions by harmonics. Professor P. Mattila from University of Helsinki gave lectures concerning rectifiability in metric spaces.*

*The carring themes of the topology week were modern methods of set theory, manly measure theory and symbolic dynamical systems. These topics were presented in three series of invited lectures. Professor David Fremlin gave a series "Radon Measures", Professor Stefan Geschke spoke on "Filtrations of Boolean Algebras" and Professor A. R. D. Mathias entitled his series his series "Points of Uncountable Score". The afternoon February 1st was devoted to Dorothy Maharam and John von Neumann problem.*

*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 32nd 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.*

*Bohuslav Balcar, Jaroslav Tišer*