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Foreword

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FOREWORD

This is a set of very informal abstracts of talks presented at the 4th Winter School of Abstract Analysis.

All four Winter Schools of Abstract Analysis were held in Štefanová, a beautiful village in an old downhill-skiing area. The first school was organized for two groups of students and graduated students of the Faculty of Mathematics and Physics at the Charles University. One group had a reasonable background in topology and category theory, the other one in real and functional analysis. The main topic was measure theory. A lot of time was left for working seminars. The second school had a similar character. Functional analysis (R-N property) dominated the program of the third winter school. As a result, the working character was lost for the first group. That was the main reason for having two sections at the 4th winter school. The section of analysis was devoted to geometry of Banach spaces, vector-valued measures and lifting theory. The section of "topology" was devoted to fuzzy structures, Ramsey theorems, uniform spaces, and foundations in connection with general topology and ultrafilters.

The next Winter School will be held in Štefanová approximately at the beginning of February 1977. We will have two sections in similar fields (we may have more probability theory). I expect the sets of participants of the two sections to be almost disjoint. We will try to leave more time for working seminars and individual research work.

I owe thanks to the participants for making the winter schools useful, exhausting and pleasant. It is a pleasure to acknowledge my indebtedness to the Union of Czechoslovak Mathematicians and Physicists for sponsoring all four winter schools, to the Faculty of Mathematics and Physics of the Charles University for inviting the main speakers at the 4th Winter School, and to the Mathematical Institute of the Czechoslovak Academy of Sciences for publishing these Abstracts.

I am particularly obliged to Ladislav Berger for his most helpful assistance in organizing of all the winter schools.

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