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Foreword

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This volume contains the abstracts of talks presented on the 5th Winter School, submitted for publication before May 15, 1977. It is a pitty indeed that a number of brilliant lectures and series of lectures are not recorded here.

The next Winter School will be held in Štefanová at the beginning of February 1977. The program of the section of analysis will be extended by a series of lectures on Quantum Field Theory. The program of the section of topology will be extended by a series of lectures on mathematical methods in medical and biological sciences.

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 Faculty of Mathematics and Physics of the Charles University for sponsoring all five winter schools, and to the Mathematical Institute of the Czechoslovak Academy of Sciences for publishing this volume.

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

Z. Frolík

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