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Conference on Harmonic Analysis

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Edited by Denny Gulick and Ronald L. Lipsman,
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PREFACE

During the five-day period November 8-12, 1971, an International Conference on Harmonic Analysis took place on the College Park campus of the University of Maryland, highlighting a special year of functional analysis in the Department of Mathematics. The participants focused their attention on two aspects of harmonic analysis -- group representations and spectral synthesis. On the one hand, these two fields have many roots in common; on the other hand, their paths have diverged during recent decades. As a result, one aim of the conference was to reintroduce the two fields to each other. A second aim was to report recent work within each area, so as to generate continued interest and vigor within harmonic analysis.

The enclosed papers represent either outlines or detailed expositions of all lectures presented at the conference except those given by F. Bruhat, B. Kostant, C. C. Moore, and R. Spector, and except for the pair of special expository lectures, given by J.-P. Kahane and Y. Katznelson. It is of course impossible to reproduce the individual and group discussions that took place during that week. However, we hope that this volume will serve both those who attended and those who could not attend, and that this permanent record will add to the stimulation of the conference itself.

Nearly all the papers were typed at the institutions of the respective speakers. Nevertheless, we have proofread the manuscripts, and bear responsibility for any inaccuracies they contain.

Denny Gulick

Ron Lipsman

ACKNOWLEDGMENTS

We thank our colleague Robert L. Ellis for his help on the conference organizing committee, Jacob Goldhaber for his assistance as chairman of the Mathematics Department, Betty Vanderslice and Patricia Berg for their assistance in the editing of manuscripts. We also extend our thanks to the Institutes and Conferences Division of University College at the University of Maryland, and in particular Edwin Crispin and his staff, for their role in setting up the conference. Moreover, we appreciate greatly the generous support granted the conference by the National Science Foundation. Finally, we are grateful to Springer-Verlag for its prompt and efficient publication of these proceedings.

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