

OFFICIAL COMMUNICATIONS



MEETINGS OF THE SOCIETY

SUMMER MEETING: MADISON, WISCONSIN, September 7-10, 1948.

Abstracts must have been in the hands of Associate Secretary R. H. Bruck, North Hall, University of Wisconsin, Madison 6, Wis., not later than July 27. The Colloquium Lectures on *Representations of groups and rings* will be given by Professor Richard Brauer. By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there will be an address by Professor J. W. T. Youngs entitled *Topological methods in the theory of Lebesgue area*.

NEW YORK CITY, October 30, 1948.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, American Mathematical Society, 531 West 116th St., New York 27, N. Y., not later than September 18. By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings, there will be an address by Professor Raphael Salem entitled *Convexity theorems*.

CHICAGO, ILLINOIS, November 26-27, 1948.

Abstracts must be in the hands of Associate Secretary J. W. T. Youngs, Indiana University, Bloomington, Ind., not later than October 15. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings, there will be an address by Professor P. R. Halmos entitled *Measurable transformations* and an address by Professor Saunders MacLane entitled *Duality for groups*.

LOS ANGELES, CALIFORNIA, November 27, 1948.

Abstracts must be in the hands of Associate Secretary J. W. Green, University of California at Los Angeles, Los Angeles 24, Calif., not later than October 16. By invitation of the Committee to Select Hour Speakers for Far Western Sectional Meetings, there will be an address by Professor Herbert Busemann entitled *The geometry of Finsler spaces*.

ANNUAL MEETING: COLUMBUS, OHIO, December 28-30, 1948.

Abstracts must be in the hands of Associate Secretary J. W. T. Youngs, Indiana University, Bloomington, Ind., not later than November 16. The annual Gibbs Lecture, entitled *Ramifications, old and new, of the eigenvalue problem*, will be delivered by Professor Hermann Weyl. By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there will be an address by Professor Mark Kac.

J. R. KLINE, *Secretary of the Society*.

CONTENTS

Vol. 54, No. 8

AUGUST, 1948

Whole No. 587

	Page
Generalization of an inequality of Heilbronn and Rohrbach. By F. A. BEHREND.	681
On the density of some sequences of integers. By P. ERDős.	685
The critical numbers for unsymmetrical approximation. By R. M. ROBINSON.	693
On a class of perfect sets. By P. K. MENON.	706
The nonexistence of certain identities in the theory of partitions and compositions. By H. L. ALDER.	712
On isometries of product sets. By P. J. KELLY.	723
Bounds on characteristic values. By E. W. BARANKIN.	728
Note on the spectral representation of a bounded normal matrix. By E. A. CODDINGTON.	736
Group decomposition by double coset matrices. By J. S. FRAME.	740
Equal sums of like powers. By E. M. WRIGHT.	755
One-to-one mappings of rings and lattices. By C. E. RICKART.	758
Zeros of the Hermite polynomials and weights for Gauss' mechanical quadrature formula. R. E. GREENWOOD and J. J. MILLER.	765
On the convexity of mean value functions. By HAROLD SHNIAD	770
Homomorphisms on Banach spaces. By M. E. MUNROE.	776
A note on the operators of Blaschke and Privaloff. By D. H. POTTS.	782
The remainder in approximations by moving averages. By ARTHUR SARD.	788
On approximate derivatives. By S. E. CHOW.	793
Generalization of Menger's result on the structure of logical formulas. By D. C. GERNETH.	803
The extension of a homeomorphism defined on the boundary of a 2-manifold. By J. W. T. YOUNGS.	805

Articles for insertion in the BULLETIN should be typewritten, double spaced, and the author should keep a complete copy. Papers in algebra and theory of numbers should be sent to NATHAN JACOBSON, Leet Oliver Memorial Hall, Yale University, New Haven, Conn.; in analysis to R. E. LANGER, North Hall, University of Wisconsin, Madison 6, Wis.; in other fields to DEANE MONTGOMERY, Institute for Advanced Study, Princeton, N. J. Reviews should be sent to E. R. LORCH, Milbank Hall, Columbia University, New York 27, N. Y., and items for Notes to BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY, 531 West 116th St., New York 27, N. Y. All communications relating to the odd-numbered issues of the BULLETIN should be sent to E. B. SROUFFER, University of Kansas, Lawrence, Kan., and all other communications to the editors should be addressed to the Managing Editor, R. E. LANGER, North Hall, University of Wisconsin, Madison 6, Wis.

The initial fees and annual dues of members of the Society (see this BULLETIN, November, 1946, Part 2, p. 105; and May, 1947, p. 459) are payable to the Treasurer of the Society, B. P. GILL, 531 West 116th St., New York 27, N. Y.