

OFFICIAL COMMUNICATIONS



MEETINGS OF THE SOCIETY

SUMMER MEETING: NEW BRUNSWICK, NEW JERSEY, September 15-17, 1945.

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 August 11. Abstracts received by August 1 will appear in the September issue of this BULLETIN. By invitation of the Program Committee there will be an address by Professor S. S. Chern entitled *Some new viewpoints in differential geometry in the large*, an address by Professor Samuel Eilenberg entitled *Topological methods in abstract algebra*, and an address by Professor Witold Hurewicz entitled *Some aspects of ergodic theory*.

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

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 SAUNDERS MACLANE, 474 Widener, Harvard University, Cambridge 38, Mass.; in analysis to R. E. LANGER, North Hall, University of Wisconsin, Madison 6, Wis.; in other fields to P. A. SMITH, Columbia University, New York 27, N. Y. 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. STOFFER, University of Kansas, Lawrence, Kan., and all other communications to the editors should be addressed to the Managing Editor, P. A. SMITH, Columbia University, New York 27, N. Y.

The initial fees and annual dues of members of the Society (see this BULLETIN, May, 1930, p. 322; and November, 1944, Part 2, p. 93) are payable to the Treasurer of the Society, B. P. GILL, 531 West 116th St., New York 27, N. Y.

CONTENTS

Vol. 51, No. 7

JULY, 1945

Whole No. 550

	Page
Axiomatic Characterization of Fields by the Product Formula for Valuations. By EMIL ARTIN and GEORGE WHAPLES.	469
The April Meeting in Stanford University. By A. C. SCHAEFFER	493
Report of the Meeting of the Council of the Society in New York City on April 28, 1945. By J. R. KLINE.	494
Book Reviews.	498
Notes.	513
Abstracts of Papers	
Algebra and Theory of Numbers.	517
Analysis.	518
Applied Mathematics.	522
Geometry.	523
Topology.	525
New Publications.	528