

OFFICIAL COMMUNICATIONS



MEETINGS OF THE SOCIETY

NEW YORK CITY, COLLEGE OF THE CITY OF NEW YORK, February 28, 1948.

Abstracts must have been in the hands of Associate Secretary T. R. Hollcroft, American Mathematical Society, 531 West 116th Street, New York 27, N. Y., not later than January 24. By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings, there will be an address by Professor Eric Reissner entitled *Boundary value problems in aerodynamics of oscillating wings*.

CHICAGO, ILLINOIS, February 28, 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 January 24. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings, there will be an address by Professor André Weil entitled *Abelian varieties*.

NEW YORK CITY, April 16-17, 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 March 12. By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings, there will be an address by Professor O. E. Neugebauer entitled *Mathematical methods in ancient astronomy* and an address by Professor Charles Loewner entitled *Some classes of functions defined by the difference or differential inequalities*.

ANN ARBOR, MICHIGAN, April 16-17, 1948.

Abstracts must be in the hands of Associate Secretary R. H. Bruck, North Hall, University of Wisconsin, Madison 6, Wis., not later than March 12. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings, there will be an address by Professor H. S. M. Coxeter entitled *Self-dual configurations and regular graphs* and an address by Professor Irving Kaplansky entitled *Topological rings*.

BERKELEY, CALIFORNIA, April 17, 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 March 13. By invitation of the Committee to Select Hour Speakers for Far Western Sectional Meetings there will be an address by Professor H. F. Bohnenblust entitled *On van der Pol's equations*.

VANCOUVER, BRITISH COLUMBIA, June 19, 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 May 15.

CAMBRIDGE, MASSACHUSETTS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, July 29-31, 1948.

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

CONTENTS

Vol. 54, No. 2 FEBRUARY, 1948 Whole No. 581

	Page
Apsidal angles for symmetrical dynamical systems with two degrees of freedom. By J. L. SYNGE	111
Nonlinear networks. Iib. By R. J. DUFFIN	119
Steiner's formulae on a general S^{n+1} . By C. B. ALLENDOERFER	128
A characteristic property of affine collineations in a space of K -spreads. By BUCHIN SU	136
An inequality concerning polyhedra. By LÁSZLÓ FEJES TÓTH	139
A note on local connectivity. By E. G. BEGLE	147
Unconditional convergence in Banach spaces. By S. KARLIN	148
On a certain classification of rings and semigroups. By DOV TAMARI	153
On the representation, in the ring of p -adic integers, of a quadratic form in n variables by one in m variables. By IRMA MOSES	159
The role of the center in the theory of direct decompositions. By REINHOLD BAER	167
Nonassociative valuations. By DANIEL ZELINSKY	175
On the roots of a polynomial and its derivative. By PAUL ERDÖS and IVAN NIVEN	184
Note on the location of the critical points of harmonic functions. By J. L. WALSH	191
The critical points of linear combinations of harmonic functions. By J. L. WALSH	196
Some properties of continued fractions $1+d_0z+K(z/(1+d_nz))$. By W. J. THRON	206
Some limit theorems. By I. M. SHEFFER	219
Nicholson's integral for $J_n^2(z) + Y_n^2(z)$. By J. E. WILKINS	232
The Kolmogoroff principle for the Lebesgue area. By R. G. HELSEL and E. J. MICKLE	235

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, Department of Mathematics, Yale University, New Haven, Conn. 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. STOUFFER, 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.