

OFFICIAL COMMUNICATIONS

Meetings of the Society have been fixed at the following times and places:

PITTSBURGH, PENNSYLVANIA, Annual Meeting, December 27-31, 1934.

This meeting is to be held in conjunction with Section A of the A.A.A.S. and the M.A.A. Professor A. B. Coble will deliver his retiring presidential address. There will be a joint session with the American Physical Society, at which time there will be a symposium on mathematical physics with special reference to quantum mechanics. Professor Albert Einstein will deliver the eleventh Josiah Willard Gibbs Lecture. At a joint session with Section A of the A.A.A.S. and the Mathematical Association, addresses will be delivered by Professor C. N. Moore as retiring Chairman of Section A, on *Mathematics and Science*, and by Professor Arnold Dresden as retiring President of the Mathematical Association, on *A Program for Mathematics*.

NEW YORK CITY, February 23, 1935.

Abstracts must be in the hands of Associate Secretary J. R. Kline, 501 West 116th St., New York City, not later than January 26. Abstracts received by the Secretaries on or before January 11 will appear in the January issue of this Bulletin. By invitation of the Program Committee, Professor Morgan Ward will deliver an address on the topic *Arithmetic Theory of linear recurring series*.

STANFORD UNIVERSITY, April 6, 1935.

Abstracts must be in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, California, not later than March 9. All these will appear in the March issue of this Bulletin.

NEW YORK CITY, April 19-20, 1935.

Abstracts must be in the hands of Associate Secretary J. R. Kline, 501 West 116th St., New York City, not later than March 23. Abstracts received by the Secretaries on or before March 9 will appear in the March issue of this Bulletin. There will be a symposium on the topic *The problem of three bodies, and allied problems*, at which the speakers will be Professors G. D. Birkhoff, E. W. Brown, and Aurel Wintner.

CHICAGO, ILLINOIS, April 19-20, 1935.

Abstracts must be in the hands of Associate Secretary M. H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than March 23. Abstracts received by the Secretaries on or before March 9 will appear in the March issue of this Bulletin. By invitation of the Program Committee, Professor L. M. Graves will deliver an address on *Topics in Functional Calculus*.

R. G. D. RICHARDSON, *Secretary of the Society*.

Articles for insertion in the BULLETIN should be addressed to E. R. HEDRICK, Editor of the BULLETIN, University of California at Los Angeles. Reviews should be sent to W. R. LONGLEY, Yale University, New Haven, Conn. Notes should be sent to H. W. KUHN, Ohio State University, Columbus, Ohio.

Subscriptions to the BULLETIN, orders for back numbers, and inquiries in regard to non-delivery of current numbers should be addressed to the American Mathematical Society, 450-459 Ahnaip St., Menasha, Wis., or 501 West 116th St., New York.

The initiation fees and the annual dues of members of the Society (see this BULLETIN, p. 322, May, 1930; and the List of Officers and Members, September, 1934, p. 66), are payable to the Treasurer of the Society, Professor G. W. Mullins, 501 West 116th St., New York City.

WHOLE NUMBER 423

CONTENTS

	PAGE
An Arithmetical Property of Recurring Series of the Second Order. By MORGAN WARD.....	825
Construction of a Groupless and Headless Triad System on 31 Elements. By H. S. WHITE.....	829
On the Enumeration of Magic Cubes. By D. N. LEHMER	833
Extension of Range of Functions. By E. J. MCSHANE...	837
The Principal Matrices of a Riemann Matrix. By A. A. ALBERT.....	843
Transfinite Subgroup Series. By GARRETT BIRKHOFF...	847
Loci of m -Spaces joining Corresponding Points of $m+1$ Projectively Related n -Spaces in r -Space. By B. C. WONG.....	850
A Note on Units in Super-Cyclic Fields. By H. S. VANDIVER.....	855
A Problem in Arrangements. By M. H. MARTIN.....	859
Criteria for the Irreducibility of Polynomials. By LOUIS WEISNER.....	864
On an Expansion of the Remainder in the Gaussian Quadrature Formula. By J. V. USPENSKY.....	871
On the Theory of Residues of Polygenic Functions. By V. C. POOR.....	877
Note on a Mersenne Number. By R. E. POWERS.....	883
Classes of Maximum Numbers associated with certain Symmetric Equations in n Reciprocals. By NORMA STELFORD and H. A. SIMMONS.....	884
Errata.....	894
Implicit Functions of Almost Periodic Functions. By R. H. CAMERON.....	895
On a Lemma of Fejér. By LINCOLN LA PAZ.....	904
On Approximation to an Analytic Function by Polynomials. By O. J. FARRELL.....	908
Note on a Simple Type of Algebra in which the Cancellation Law of Addition does not Hold. By H. S. VANDIVER	914

For official Communications and Notices, see the inside of the back cover.