

## OFFICIAL COMMUNICATIONS

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

NEW YORK CITY, February 25, 1933.

Abstracts must be in the hands of the Secretary of the Society, 501 West 116th St., New York City, not later than February 4, 1932. Abstracts received by January 7 will appear in the January issue of the BULLETIN. By invitation of the program committee, Professor F. R. Sharpe will deliver an address entitled *The algebraic theory of involutorial transformation*.

STANFORD UNIVERSITY, March 18, 1933.

Abstracts must be in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, California, not later than February 25. Abstracts received by that date will appear in the March issue of the BULLETIN.

NEW YORK CITY, April 14-15, 1933.

Abstracts must be in the Office of the Society, 501 West 116th St., New York City, not later than March 24. Abstracts received by March 6 will appear in the March issue of the BULLETIN. A symposium on algebra is being arranged. The leading speakers will be Professor Oystein Ore, on *Abstract ideal theory and applications*, and Professor J. V. Uspensky, on *the theory of numbers and integral calculus*.

CHICAGO, April 14-15, 1933.

Abstracts must be in the hands of the Associate Secretary, Mark H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than March 25. Abstracts received by March 6 will appear in the March issue of the BULLETIN. Professor C. C. MacDuffee will deliver a symposium lecture on *Matrices with elements in a principal ideal ring*.

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, 1932, p. 66), are payable to the Treasurer of the Society, Professor G. W. Mullins, 501 West 116th St., New York City.

## WHOLE NUMBER 399

### CONTENTS

	PAGE
Cesàro Summability of Double Series. By MARGARET GURNEY. . . . .	825
Results and Problems about $n$ -Webs of Curves in a Plane. By WILHELM BLASCHKE. . . . .	828
Solution of the Zarankiewicz Problem. By E. W. MILLER. . . . .	831
A Property related to Completeness. By J. H. ROBERTS. . . . .	835
Examples of Harmonic Functions. By A. J. MARIA. . . . .	839
Note on Relations between Elliptic Integrals and Schlämilch Series. By W. R. BENNETT. . . . .	843
On certain Dynamical Systems with Points of Peano. By MARIE CHARPENTIER. . . . .	849
On $n$ -Webs of Curves in a Plane. By G. BOL. . . . .	855
On the Derivation of Necessary Conditions for the Problem of Bolza. By G. A. BLISS and I. J. SCHOENBERG. . . . .	858
Periodic Solutions of Linear Differential Equations. By W. B. FITE. . . . .	865
Transformations associated with the Lines of a Cubic, Quadratic, or Linear Complex. By I. O. HORSFALL. . . . .	872
Note on the Gradient of the Green's Function. By G. C. EVANS. . . . .	879
On the Approximate Solution of Linear Differential Equations with Boundary Conditions. By W. H. Mc EWEN. . . . .	887
Addition Formulas for Hyperelliptic Functions. By W. V. PARKER. . . . .	895
A Correction in the List of Primes. By D. N. LEHMER. . . . .	902
Forty-First Annual List of Papers. . . . .	903
Index of Volume XXXVIII. . . . .	919

---

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