

## THE FEBRUARY MEETING IN NEW YORK

The three hundred third meeting of the American Mathematical Society was held at Columbia University, on Saturday, February 25, 1933, extending through the usual morning and afternoon sessions. The attendance included the following ninety members of the Society:

R. L. Anderson, R. G. Archibald, H. E. Arnold, J. L. Barnes, R. A. Beaver, M. F. Becker, Samuel Borofsky, A. B. Brown, E. W. Brown, A. D. Campbell, Alonzo Church, George Comenetz, R. P. Conkling, M. F. Deuring, J. L. Doob, Jesse Douglas, Arnold Dresden, Lillian Dundes, H. T. Engstrom, J. M. Feld, T. S. Fiske, W. B. Fite, D. A. Flanders, Edward Fleisher, M. M. Flood, R. M. Foster, T. C. Fry, C. A. Garabedian, R. M. Gut, E. H. Hanson, Alan Hazeltine, Lulu Hofmann, Harold Hotelling, J. C. Hughes, Nathan Jacobson, S. A. Joffe, I. N. Kagno, Edward Kasner, J. R. Kline, Morris Kline, M. S. Knebelman, B. O. Koopman, A. W. Landers, M. K. Landers, W. H. Langdon, Harry Langman, Solomon Lefschetz, A. K. Leon, H. C. Levinson, A. J. Lotka, L. A. MacColl, H. F. MacNeish, A. E. Meder, A. K. Mitchell, E. C. Molina, G. W. Mullins, C. A. Nelson, E. P. Northrop, Oystein Ore, F. W. Owens, R. E. A. C. Paley, Walter Prenowitz, G. B. Price, W. C. Randels, H. W. Raudenbush, L. M. Reagan, M. S. Rees, H. L. Rietz, J. F. Ritt, S. L. Robinson, C. E. Seely, F. R. Sharpe, Jacob Sherman, L. P. Siceloff, L. L. Smail, P. A. Smith, M. H. Stone, Paul Szabo, H. B. Thiessen, J. M. Thomas, E. W. Titt, I. L. Van Dyck, Oswald Veblen, H. E. Wahlert, R. J. Walker, Henry Walther, M. E. Wells, R. A. Wetzel, W. A. Wilson, Leo Zippin.

At a business session of the Society held before the beginning of the afternoon session the following changes in the By-Laws were adopted, as recommended by the Council: Article I, Section 2, to read "It shall be a duty of the President to deliver an address before the Society at the close of his term of office or within one year thereafter." Article VI, Section 2, last clause of the first sentence, to read "four dollars of the dues of each member shall be for a year's subscription to the Bulletin."

At the beginning of the afternoon session, by invitation of the Program Committee, Professor F. R. Sharpe, of Cornell University, delivered an address entitled *The algebraic theory of involutorial transformations*.

Titles and cross-references to the abstracts of the papers read at the regular sessions follow below. Professor W. A. Wilson presided at the morning session, and Professor Arnold Dresden in the afternoon. Mr. Halperin was introduced by Professor

Kasner, and Mr. Richardson by Professor P. A. Smith. The papers whose abstract numbers are followed by the letter *t* were read by title.

1. *Pseudo-covariants of an  $n$ -ic in  $m$  variables in a Galois field that consist of terms of this  $n$ -ic*, by Professor A. D. Campbell. (Abstract No. 39-3-67.)

2. *The non-analytic character and the areas of Kasner's convex curves*, by Mr. Morris Halperin. (Abstract No. 39-3-68.)

3. *The ranges of analytic functions*, by Dr. J. L. Doob (National Research Fellow). (Abstract No. 39-3-69.)

4. *Finite plane euclidean geometry*, by Mr. R. A. Beaver. (Abstract No. 39-3-70.)

5. *Cell-spaces*, by Dr. A. W. Tucker (National Research Fellow). (Abstract No. 39-3-71-*t*.)

6. *Invariants of symmetric product complexes*, by Mr. Moses Richardson. (Abstract No. 39-3-72.)

7. *The torsion coefficients of symmetric products*, by Professor P. A. Smith. (Abstract No. 39-3-73.)

8. *A separation theorem*, by Professor W. A. Wilson. (Abstract No. 39-3-74.)

9. *A metrization theorem of Chittenden and Pitcher*, by Dr. Selby Robinson (National Research Fellow). (Abstract No. 39-3-75.)

10. *On a special class of polynomials*, by Professor Oystein Ore. (Abstract No. 39-3-76.)

11. *A note on compactness*, by Mr. E. H. Hanson. (Abstract No. 39-3-77-*t*.)

12. *Concurrence and uncountability*, by Dr. N. E. Rutt. (Abstract No. 39-3-78-*t*.)

13. *Prime ends and order*, by Dr. N. E. Rutt. (Abstract No. 39-3-79-*t*.)

14. *Sets of local separating points of a continuum*, by Dr. G. T. Whyburn. (Abstract No. 39-3-80-*t*.)

15. *On primary normal division algebras of degree eight*, by Professor A. A. Albert. (Abstract No. 39-1-65-*t*.)

16. *Cyclic fields of degree eight*, by Professor A. A. Albert. (Abstract No. 39-1-66-*t*.)

17. *A note on the equivalence of algebras of degree two*, by Professor A. A. Albert. (Abstract No. 39-3-81-*t*.)

18. *On Young's definition of an algebra*, by Dr. L. E. Bush. (Abstract No. 39-3-82-t.)
19. *On a generalization of certain theorems on algebras with a modulus*, by Dr. L. E. Bush. (Abstract No. 39-3-83-t.)
20. *The representation of integers as sums of pyramidal numbers*, by Dr. R. D. James (National Research Fellow). (Abstract No. 39-3-84-t.)
21. *An application of characteristic functions to statistics* (preliminary report), by Mr. Solomon Kullback. (Abstract No. 39-3-85-t.)
22. *On the structure of Boolean algebras*, by Professor M. H. Stone. (Abstract No. 39-3-86-t.)
23. *Bloch's theorem for minimal surfaces*, by Dr. E. F. Beckenbach (National Research Fellow). (Abstract No. 39-3-87-t.)
24. *A third-order irregular boundary value problem and the associated series*, by Professor L. E. Ward. (Abstract No. 39-3-88-t.)
25. *Notes on the theory and application of Fourier transforms*, I-II, by Dr. R. E. A. C. Paley and Professor Norbert Wiener. (Abstract No. 39-3-89-t.)
26. *On the decomposition of prime ideals in relative icosahedron fields*, by Dr. R. M. Gut (Rockefeller Foundation Fellow). (Abstract No. 39-3-90.)
27. *A Jordan space-curve which bounds no finite simply-connected area*, by Professor Jesse Douglas. (Abstract No. 39-3-91.)
28. *On the division transformation for matrix polynomials*, by Mr. M. M. Flood. (Abstract No. 39-3-92.)
29. *The uniformly loaded thick rectangular plate with at least two opposite edges supported*, by Professor C. A. Garabedian. (Abstract No. 39-3-93.)
30. *A study of certain dynamical systems with applications to the generalized double pendulum*, by Dr. G. B. Price. (Abstract No. 39-3-94.)

J. R. KLINE, *Associate Secretary*