

THE OCTOBER MEETING IN NEW YORK

The four hundred seventh meeting of the American Mathematical Society was held at Columbia University on Saturday, October 28, 1944. The attendance included the following one hundred fifty-five members of the Society:

R. L. Anderson, R. G. Archibald, H. E. Arnold, L. A. Aroian, F. E. Baker, P. T. Bateman, E. G. Begle, Felix Bernstein, Lipman Bers, Garrett Birkhoff, Gertrude Blanch, H. W. Bode, C. B. Boyer, A. B. Brown, G. E. Bulloch, Hobart Bushey, J. H. Bushey, S. S. Chern, Edmund Churchill, B. H. Colvin, T. F. Cope, Richard Courant, M. D. Darkow, J. A. Daum, M. M. Day, John DeCicco, Jesse Douglas, Jacques Dutka, Samuel Eilenberg, Paul Erdős, J. M. Feld, A. D. Fialkow, L. A. Fine, M. C. Foster, R. M. Foster, R. H. Fox, G. A. Foyle, Hans Fried, Bernard Friedman, K. O. Friedrichs, G. N. Garrison, Abe Gelbart, David Gilbarg, B. P. Gill, R. O. Goodman, W. H. Gottschalk, H. J. Greenberg, Bernard Greenspan, H. M. Griffin, C. C. Grove, F. C. Hall, P. R. Halmos, G. A. Hedlund, Olaf Helmer, Erik Hemmingsen, M. R. Hestenes, Edwin Hewitt, Einar Hille, Abraham Hillman, G. P. Hochschild, T. R. Hollcroft, E. M. Hull, W. A. Hurwitz, (L.) C. Hutchinson, B. M. Ingersoll, S. A. Joffe, Irving Kaplansky, Edward Kasner, M. E. Kellar, J. W. Kitchens, J. R. Kline, E. G. Kogbetliantz, Horace Komm, D. M. Krabill, M. E. Ladue, Solomon Lefschetz, Max LeLeiko, Howard Levene, W. J. LeVeque, Howard Levi, Norman Levinson, Marie Litzinger, W. R. Longley, L. H. Loomis, Simon Lopata, E. R. Lorch, A. N. Lowan, Eugene Lukacs, Janet McDonald, L. A. MacColl, G. W. Mackey, Saunders MacLane, H. F. MacNeish, A. J. Maria, D. M. H. Maria, W. T. Martin, A. E. Meder, L. W. Miller, Deane Montgomery, G. W. Mullins, C. A. Nelson, A. V. Newton, P. B. Norman, J. C. Oxtoby, Gordon Pall, F. W. Perkins, W. A. Pierce, Harry Pollard, E. L. Post, M. H. Protter, Hans Rademacher, Tibor Radó, J. F. Ritt, H. A. Robinson, P. C. Rosenbloom, Raphael Salem, H. E. Salzer, Arthur Sard, L. J. Savage, I. J. Schoenberg, E. J. Scott, I. E. Segal, C. E. Shannon, L. L. Silverman, M. H. Slud, P. A. Smith, Ernst Snapper, I. S. Sokolnikoff, Herbert Solomon, J. J. Stoker, E. G. Straus, W. C. Strodt, Fred Supnick, Otto Szász, Feodor Theilheimer, C. J. Thorne, Leonard Tornheim, J. W. Tukey, Annita Tuller, Andrew Vazsonyi, R. M. Walter, S. E. Warschawski, W. R. Wasow, Alan Wayne, G. C. Webber, Louis Weisner, A. P. Wheeler, J. E. Wilkins, John Williamson, Y. C. Wong, S. C. Wu, Z. S. Wurtele, Daniel Zelinsky, M. F. Zucker, Antoni Zygmund.

There was a session for contributed papers in the morning at which Professor W. T. Martin presided. At the general session in the afternoon Professor Gordon Pall of McGill University gave an address entitled *The arithmetical invariants of quadratic forms*. Professor Garrett Birkhoff presided at the afternoon session.

Titles and cross references to the abstracts of papers read follow below. Papers whose abstract numbers are followed by the letter *t* were read by title. The papers numbered 1–9 were read in the morning session and papers 10–29 were presented by title. Paper 1 was read by Dr. Pollard. Mr. Hsiung was introduced by Professor T. R. Holl-

croft and Professor Hua and Mr. Min were introduced by Professor A. T. Brauer.

1. R. P. Boas and Harry Pollard: *Completeness of sets of functions. I. The Legendre functions on $(-1, 1)$* . Preliminary report. (Abstract 50-11-271.)

2. J. E. Wilkins: *A special class of surfaces in projective differential geometry. II*. (Abstract 50-11-281.)

3. Otto Szász: *On Lebesgue summability and its generalization to integrals*. (Abstract 50-11-275.)

4. L. A. Aroian: *The frequency function of the product of two normally distributed variables*. (Abstract 50-11-283.)

5. J. J. Stoker: *Nonlinear theory of curved elastic sheets*. (Abstract 51-1-35.)

6. Edward Kasner: *Multi-valued symmetries*. (Abstract 51-1-41.)

7. John DeCicco: *Survey of polygenic functions*. (Abstract 51-1-38.)

8. Einar Hille: *The commutative n -parameter case of semi-groups of linear transformations*. (Abstract 51-1-15.)

9. R. H. Fox: *An application of the complete homotopy group*. (Abstract 51-1-49.)

10. R. F. Arens: *Topologies for the class of continuous functionals on a completely regular space*. (Abstract 50-11-284-t.)

11. Stefan Bergman: *Representation of potentials of electric charge distributions*. (Abstract 50-11-276-t.)

12. Paul Erdős: *Converse of Fabry's gap theorem*. (Abstract 50-9-216-t.)

13. H. W. Eves: *Calculating machine computation forms for the three-point problem on a rectangular coordinate system*. (Abstract 50-11-277-t.)

14. A. L. Foster: *The idempotent elements of a commutative ring form a Boolean algebra; application to principal ideal rings; ring duality and general transformation theory*. (Abstract 50-11-263-t.)

15. C. C. Hsiung: *New geometrical characterizations of some conjugate nets*. (Abstract 50-9-241-t.)

16. L. K. Hua: *On the distribution of quadratic non-residues and the Euclidean algorithm in real quadratic fields. I*. (Abstract 50-11-264-t.)

17. L. K. Hua and S. H. Min: *On the distribution of quadratic non-residues and the Euclidean algorithm in real quadratic fields. II*. (Abstract 50-11-265-t.)

18. B. M. Ingersoll: *On singularities of solutions of linear partial differential equations. III*. (Abstract 50-11-272-t.)

19. Nathan Jacobson: *A definition of the radical for an arbitrary ring*. (Abstract 50-11-266-t.)

20. Nathan Jacobson: *A problem on algebraic algebras*. (Abstract 51-1-8-t.)
21. R. L. Jeffery and D. S. Miller: *Convergence factors for generalized integrals*. (Abstract 50-9-219-t.)
22. Jakob Levitzki: *Chain-conditions and nilpotency*. (Abstract 50-11-267-t.)
23. A. E. Meder and Elizabeth Hallett: *The equipollence of two systems of axioms*. (Abstract 50-11-282-t.)
24. Raphael Salem: *On power series with integral coefficients*. (Abstract 50-11-274-t.)
25. I. J. Schoenberg: *An interpolation formula derived from heat-flow*. I. (Abstract 50-11-278-t.)
26. I. J. Schoenberg: *On smoothing and subtabulation of empirical functions by means of heat-flow*. II. (Abstract 50-11-279-t.)
27. A. H. Stone: *On the normality of product spaces*. Preliminary report. (Abstract 50-11-286-t.)
28. Alexander Weinstein and J. R. Ponder: *On two elementary problems of mechanics and electromagnetic theory*. (Abstract 50-11-280-t.)
29. G. W. Whitehead: *On products in homotopy groups*. (Abstract 50-11-288-t.)

T. R. HOLLCROFT,
Associate Secretary