

## THE NOVEMBER MEETING IN PASADENA

The three hundred eighty-third meeting of the American Mathematical Society was held at the California Institute of Technology, Pasadena, California, on November 22, 1941. The attendance was about seventy, including the following thirty-eight members of the Society:

O. W. Albert, L. D. Ames, R. S. Arthur, H. M. Bacon, Harry Bateman, Clifford Bell, J. L. Brenner, F. A. Butter, P. H. Daus, G. C. Evans, G. E. Forsythe, W. H. Glenn, H. J. Hamilton, Einar Hille, P. G. Hoel, C. G. Jaeger, Glenn James, D. H. Lehmer, R. J. Levit, S. H. Levy, G. F. McEwen, G. W. Mackey, A. D. Michal, W. T. Puckett, W. C. Roberts, G. E. F. Sherwood, D. V. Steed, J. D. Swift, P. M. Swingle, Gabor Szegö, A. E. Taylor, T. Y. Thomas, S. E. Urner, F. A. Valentine, Morgan Ward, W. M. Whyburn, E. R. Worthington, Max Zorn.

General sessions were held in the morning and in the afternoon, the sessions opening at 10 A.M. and 2 P.M., respectively. The morning session was presided over at different times by Professors T. Y. Thomas, Gabor Szegö, and Harry Bateman, and the afternoon session by Professor G. C. Evans.

By invitation of the Program Committee, Professor W. M. Whyburn of the University of California, Los Angeles, delivered an hour address on *Differential systems with general boundary conditions*.

Following the meeting Professor and Mrs. A. D. Michal served tea at their home for members of the Society and their friends.

The titles and cross references to abstracts of papers read at the meeting are given below, abstracts whose numbers are followed by  $t$  having been read by title. Mr. R. C. James, Mr. Knox Millsaps, and Mr. Edmund Pinney were introduced by Professor A. D. Michal, Mr. S. P. Avann by Professor Morgan Ward, Mr. C. B. Barker by Professor C. B. Morrey, Jr., Dr. O. G. Owens by Professor Hans Lewy, and Mr. R. D. Gordon by Professor Max Zorn.

1. G. W. Mackey: *On the lattice of closed linear subspaces of a normed linear space*. (Abstract 47-11-472.)

2. D. H. Lehmer: *Properties of the coefficients of the modular invariant  $J(\tau)$* . (Abstract 47-11-457.)

3. R. J. Levit: *Fields in terms of a single operation*. (Abstract 47-11-459.)

4. Morgan Ward: *Conditions for a lattice to be a Boolean algebra*. (Abstract 48-1-23.)

5. R. C. James: *Linearly arc-wise connected topological groups*. (Abstract 48-1-92.)

6. Knox Millsaps: *First order differentials of functions with arguments in topological groups and values in topological abelian groups.* (Abstract 48-1-96.)
7. Edmund Pinney: *Theory of functions on linear topological spaces to Banach spaces.* (Abstract 48-1-50.)
8. S. P. Avann: *The  $\tau$ -function and its application to semi-modular lattices.* (Abstract 48-1-3.)
9. P. M. Swingle: *Topological foundations of an uncertain mathematics.* (Abstract 48-1-99.)
10. G. F. McEwen: *On the probability that a ratio of random numbers will depart from a harmonic ratio by less than a given amount.* (Abstract 48-1-89.)
11. C. B. Barker: *The Lagrange multiplier rule for two dependent and two independent variables.* (Abstract 48-1-28.)
12. R. D. Gordon: *An application of the Cauchy integral to a problem in probability theory.* (Abstract 48-1-88.)
13. Einar Hille: *On the oscillation of differential transforms. II.* (Abstract 48-1-37.)
14. R. M. Robinson: *Bounded univalent functions.* (Abstract 48-1-54-t.)
15. O. G. Owens: *An explicit formula for the solution of the ultra-hyperbolic equation in four independent variables.* (Abstract 48-1-48-t.)
16. R. P. Dilworth: *A theorem on lattice homomorphisms.* (Abstract 48-1-10-t.)
17. R. P. Dilworth: *Dependence relations in a Birkhoff lattice.* (Abstract 48-1-11-t.)
18. Nathaniel Coburn: *Unitary curves in unitary space.* (Abstract 48-1-76-t.)
19. R. C. James: *Normable topological abelian groups.* (Abstract 48-1-93-t.)
20. František Wolf: *On majorants of analytic functions.* (Abstract 48-1-62-t.)
21. S. P. Avann: *Lattices with arbitrary automorphism groups.* (Abstract 48-1-2-t.)
22. Gabor Szegő: *On the oscillation of differential transforms. I.* (Abstract 48-1-57-t.)

T. M. PUTNAM,  
Associate Secretary