

THE FEBRUARY MEETING IN NEW YORK

The three hundred twentieth meeting of the American Mathematical Society was held at Columbia University on Saturday, February 23, 1935. The attendance included the following 115 members of the Society:

E. B. Allen, R. L. Anderson, R. G. Archibald, Max Astrachan, N. H. Ball, Louis Baron, Samuel Beatty, M. F. Becker, Garrett Birkhoff, H. F. Bohnenblust, C. B. Boyer, Richard Brauer, H. W. Brinkmann, A. B. Brown, J. H. Bushey, R. H. Cameron, A. D. Campbell, W. R. Church, J. A. Clarkson, George Comenetz, Richard Courant, J. L. Doob, Jesse Douglas, R. L. Echols, H. T. Engstrom, T. S. Fiske, W. B. Fite, D. A. Flanders, M. M. Flood, M. C. Foster, R. M. Foster, Jeanette Fox, T. C. Fry, B. P. Gill, S. L. Greitzer, C. C. Grove, Marshall Hall, Morris Halperin, G. G. Harvey, Alan Hazeltine, Einar Hille, Lulu Hofmann, Harold Hotelling, J. C. Hughes, E. M. Hull, M. H. Ingraham, W. H. Ingram, Nathan Jacobson, E. R. van Kampen, Edward Kanner, S. C. Kleene, J. R. Kline, A. W. Landers, M. K. Landers, Solomon Lefschetz, D. H. Lehmer, R. R. Lyle, L. A. MacColl, H. F. MacNeish, R. S. Martin, H. H. Mitchell, Deane Montgomery, C. N. Moore, F. J. Murray, D. S. Nathan, C. A. Nelson, Emmy Noether, E. P. Northrop, Alta Odoms, H. B. Phillips, H. A. Rademacher, W. C. Randels, H. W. Raudenbush, M. S. Rees, F. G. Reynolds, Moses Richardson, R. G. D. Richardson, J. F. Ritt, S. L. Robinson, H. A. Ruger, M. F. Schmeiser, C. E. Seely, Stefan Serghiesco, Max Shiffman, J. A. Shohat, C. G. Shover, L. P. Sicheloff, L. G. Simons, M. E. Sinclair, James Singer, Abraham Sinkov, L. L. Smail, E. D. Smith, A. A. Stafford, J. D. Tamarkin, E. W. Titt, C. B. Tompkins, A. W. Tucker, I. L. Van Dyck, Oswald Veblen, J. L. Walsh, R. M. Walter, Morgan Ward, S. E. Warschawski, M. S. Webster, M. J. Weiss, W. A. Wilson, Clement Winston, Aurel Wintner, H. P. Wirth, Jack Wolfe, E. W. Woolard, Oscar Zariski, Leo Zippin, Max Zorn.

The meeting opened on Saturday morning with two sectional sessions, one of analysis and one of algebra, arithmetic, and geometry. There was a general session in the afternoon at which Professor Morgan Ward gave an address on *Arithmetic theory of linear recurring series*.

There was no meeting of the Council or of the Trustees.

Titles and cross references to the abstracts of the papers read at this meeting follow below: papers whose abstract numbers are followed by the letter *t* were read by title. The papers numbered 1 to 17 were read before the section of analysis, Professor Einar Hille presiding; those numbered 18 to 30 before the section of algebra, arithmetic, and geometry, Professor Brinkmann presiding; those numbered 31 to 61 at the general session, Pro-

fessors Solomon Lefschetz and J. D. Tamarkin presiding. Mr. Fialkow was introduced by Professor Kasner, Dr. Martin by Professor Bochner, Mr. Netzorg by Professor Bohnenblust, Dr. Offord by Professor Tamarkin, Professor Fekete by Professor Tamarkin, and Mr. Whiteman by Professor Mitchell.

1. *A generalization of harmonic functionals*, by Dr. F. G. Dressel. (Abstract No. 41-1-82-t.)

2. *Fourier series convergence criteria, as applied to continuous functions*, by Dr. J. A. Clarkson and Dr. W. C. Randels. (Abstract No. 41-1-81.)

3. *On an approximate functional equation of Paley*, by Dr. W. C. Randels. (Abstract No. 41-1-92.)

4. *$(n-1)$ -dimensional characteristic strips and Cauchy's problem for partial differential equations*, by Dr. E. W. Titt. (Abstract No. 41-3-103.)

5. *Non-commutative integration*, by Mr. Garrett Birkhoff. (Abstract No. 41-3-104.)

6. *Linear differential equations with almost periodic coefficients*, by Dr. R. H. Cameron (National Research Fellow). (Abstract No. 41-3-105.)

7. *The dynamics of Gramme-ring generators* (preliminary report), by Mr. W. H. Ingram. (Abstract No. 41-1-87.)

8. *On linear transformations in \mathcal{L}_p , $p > 1$* , by Mr. F. J. Murray (National Research Fellow). (Abstract No. 41-3-106.)

9. *Linear difference equations with arbitrary real spans*, by Dr. W. T. Martin (National Research Fellow). (Abstract No. 41-3-107.)

10. *A new approximation method in solving linear differential equations with non-oscillating coefficients*, by Professor Cornelius Lanczos. (Abstract No. 41-3-108-t.)

11. *On the angular derivatives of univalent functions*, by Dr. S. E. Warschawski. (Abstract No. 41-3-109.)

12. *On positive Cotes' numbers*, by Mr. D. L. Netzorg. (Abstract No. 41-3-110.)

13. *On Fourier transforms. III*, by Dr. A. C. Offord. (Abstract No. 41-3-111-t.)

14. *Converse theorems of summability for Dirichlet series*, by Professor Otto Szász. (Abstract No. 41-3-112-t.)

15. *On convergence in length*, by Professor C. R. Adams and Dr. Hans Lewy. (Abstract No. 41-3-113-t.)
16. *Orthogonal polynomials and functions of the second kind*, by Professor J. L. Walsh. (Abstract No. 41-3-114-t.)
17. *Some generalizations of Paley's theorems on Fourier series with positive coefficients*, by Professor M. Fekete. (Abstract No. 41-3-115-t.)
18. *Congruences with a common middle envelope*, by Professor Malcolm Foster. (Abstract No. 41-3-116.)
19. *Trajectories and lines of force*, by Mr. Aaron Fialkow. (Abstract No. 41-1-83-t.)
20. *Finiteness of the number of quadratic fields with even discriminant and Euclid algorithm* (preliminary report), by Miss Jeanette Fox. (Abstract No. 41-3-117.)
21. *A set of defining relations for the simple group of order 1092*, by Dr. Abraham Sinkov. (Abstract No. 41-1-94.)
22. *On Lucas's test for the primality of Mersenne's numbers*, by Dr. D. H. Lehmer. (Abstract No. 41-3-118.)
23. *Representation of Lie algebras*, by Dr. Nathan Jacobson. (Abstract No. 41-1-89.)
24. *Divisibility sequences of third order*, by Mr. Marshall Hall. (Abstract No. 41-1-85.)
25. *Proper reduction of regular matrix polynomials*, by Mr. M. M. Flood. (Abstract No. 41-1-84.)
26. *Note on metric geometry*, by Professor I. J. Schoenberg. (Abstract No. 41-3-119-t.)
27. *On the Poincaré group of plane algebraic curves* (first communication), by Professor Oscar Zariski. (Abstract No. 41-3-120.)
28. *A note on the word mantissa*, by Dr. C. C. Grove. (Abstract No. 41-3-121.)
29. *The classification and general solution of certain diophantine problems which involve special systems of equations of the second degree*, by Professor H. A. Simmons. (Abstract No. 41-3-122-t.)
30. *On Bieberbach's theory of cubic constructions*, by Professor Raymond Garver. (Abstract No. 41-3-123-t.)
31. *On convergence factors in multiple series summable by Nörlund means*, by Professor C. N. Moore. (Abstract No. 41-3-124.)

32. *A new inversive invariant*, by Professor Edward Kasner. (Abstract No. 41-3-125.)
33. *On mechanical quadratures*, by Professor J. A. Shohat. (Abstract No. 41-3-126.)
34. *Pseudo-covariants in a Galois field and their algebraic and geometric applications*, by Professor A. D. Campbell. (Abstract No. 41-3-127.)
35. *On the law of quadratic reciprocity*, by Mr. Albert White-man. (Abstract No. 41-1-99.)
36. *Studies in the summability of Fourier series by Nörlund means*, by Mr. Max Astrachan. (Abstract No. 41-3-128-t.)
37. *Abstract continuous groups*, by Mr. Garrett Birkhoff. (Abstract No. 41-3-129-t.)
38. *On the lattice theory of ideals. II*, by Mr. Garrett Birkhoff. (Abstract No. 41-1-75-t.)
39. *An algebraic proof for the quasi-congruence order of the R_n* , by Dr. L. M. Blumenthal (National Research Fellow). (Abstract No. 41-1-76-t.)
40. *A short proof of a theorem of K. Menger*, by Dr. L. M. Blumenthal (National Research Fellow). (Abstract No. 41-1-77-t.)
41. *On certain analytic continuations and analytic homeomorphisms*, by Dr. A. B. Brown. (Abstract No. 41-1-78-t.)
42. *On the locus of an analytic equation in the real plane*, by Dr. A. B. Brown. (Abstract No. 41-1-79-t.)
43. *Note on the clock problem in relativity*, by Professor J. W. Campbell. (Abstract No. 41-1-80-t.)
44. *Involutorial transformations associated with a rational ruled surface. Part I*, by Dr. L. A. Dye. (Abstract No. 41-3-130-t.)
45. *Divisibility sequences of fourth order*, by Mr. Marshall Hall. (Abstract No. 41-1-86-t.)
46. *Rational methods in the theory of Lie algebras*, by Dr. Nathan Jacobson. (Abstract No. 41-1-88-t.)
47. *Some theorems concerning certain spaces of R. L. Moore*, by Mr. F. B. Jones. (Abstract No. 41-1-90-t.)
48. *The dual of Lie's contact transformation of dynamics*, by Professor Edward Kasner. (Abstract No. 41-3-131-t.)
49. *Osculating turbines*, by Professor Edward Kasner. (Abstract No. 41-3-132-t.)

50. *A note on the analysis of variance*, by Dr. Solomon Kullback. (Abstract No. 41-3-133-t.)
51. *On samples from a multivariate normal population*, by Dr. Solomon Kullback. (Abstract No. 41-1-91-t.)
52. *A basis for residual polynomials in n variables*, by Professor Marie Litzinger. (Abstract No. 41-3-134-t.)
53. *Operational methods in theoretical population problems*, by Professor T. H. Rawles. (Abstract No. 41-3-135-t.)
54. *A certain three-dimensional continuum*, by Dr. W. T. Reid. (Abstract No. 41-3-136-t.)
55. *The relative connectivities of symmetric products* (preliminary report), by Mr. Moses Richardson. (Abstract No. 41-1-93-t.)
56. *On the coefficients of a typically-real function*, by Dr. M. S. Robertson (National Research Fellow). (Abstract No. 41-3-137-t.)
57. *Generalization of two theorems of Hardy and Littlewood on power series*, by Professor Otto Szász. (Abstract No. 41-3-138-t.)
58. *Matrices permutable with the rational canonical form of a matrix*, by Dr. Richard Trott. (Abstract No. 41-1-95-t.)
59. *On the laws of distribution of certain statistics for samples of n from Poisson's first law of probability*, by Professor F. M. Weida. (Abstract No. 41-1-96-t.)
60. *Abstract theory of inversion of finite sums*, by Professor Louis Weisner. (Abstract No. 41-1-97-t.)
61. *Some properties of prime-power groups*, by Professor Louis Weisner. (Abstract No. 41-1-98-t.)

J. R. KLINE,
Associate Secretary