

THE FEBRUARY MEETING IN NEW YORK

The three hundred sixty-sixth meeting of the American Mathematical Society was held at Columbia University on Saturday, February 24, 1940. The attendance included the following two hundred forty-two members of the Society:

R. P. Agnew, C. B. Allendoerfer, Warren Ambrose, R. L. Anderson, R. G. Archibald, Herbert E. Arnold, L. A. Aroian, K. J. Arrow, F. E. Baker, M. F. Becker, D. L. Bernstein, A. C. Berry, E. E. Betz, Gertrude Blanch, J. H. Blau, Salomon Bochner, Frank Boehm, W. M. Bond, Samuel Borofsky, C. B. Boyer, A. D. Bradley, A. T. Brauer, H. W. Brinkmann, A. A. F. Brown, A. B. Brown, K. A. Bush, J. H. Bushey, Jewell H. Bushey, S. S. Cairns, W. B. Campbell, F. E. Carner, Claude Chevalley, Alonzo Church, T. F. Cope, Richard Courant, H. B. Curry, M. D. Darkow, Norman Davids, M. M. Day, J. J. De Cicco, M. E. A. Dever, R. P. Dilworth, C. H. Dix, W. J. Dixon, Jesse Douglas, T. L. Downs, Arnold Dresden, F. G. Dressel, W. D. Duthie, J. E. Eaton, W. F. Eberlein, M. L. Elveback, J. M. Feld, W. K. Feller, Aaron Fialkow, W. B. Fite, W. W. Flexner, G. E. Forsythe, Tomlinson Fort, R. M. Foster, K. O. Friedrichs, Orrin Frink, Guido Fubini, G. N. Garrison, Hilda Geiringer, Abe Gelbart, B. P. Gill, M. A. Girshick, Saul Gorn, P. H. Graham, A. M. C. Grant, H. S. Grant, C. H. Graves, C. C. Grove, D. W. Hall, F. C. Hall, N. A. Hall, P. R. Halmos, Hans-Karl Hammer, O. G. Harrold, Philip Hartman, G. G. Harvey, C. M. Hebbert, G. A. Hedlund, Edward Helly, J. G. Herriot, Maximilian Herzberger, Fritz Herzog, E. H. C. Hildebrandt, L. S. Hill, Einar Hille, Banesh Hoffmann, Lulu Hofmann, T. R. Hollcroft, E. M. Hull, W. H. Ingram, S. A. Jennings, R. A. Johnson, B. W. Jones, H. A. Jordan, Mark Kac, I. N. Kagno, E. R. van Kampen, Edward Kasner, L. S. Kennison, S. C. Kleene, J. R. Kline, Morris Kline, E. R. Kolchin, B. O. Koopman, Arthur Korn, Jack Laderman, M. E. Ladue, A. W. Landers, M. K. Landers, Solomon Lefschetz, A. M. M. Lehr, B. A. Lengyel, Howard Levi, Madeline Levin, D. P. Ling, E. R. Lorch, A. N. Lowan, P. H. McGrath, I. C. McLaughlin, Brockway McMillan, L. A. MacColl, J. K. L. MacDonald, H. F. MacNeish, W. G. Madow, P. T. Maker, A. J. Maria, D. H. Maria, A. V. Martin, Walther Mayer, A. E. Meder, A. K. Mitchell, Don Mittleman, E. C. Molina, Deane Montgomery, J. C. Montgomery, L. T. Moore, T. W. Moore, Marston Morse, G. W. Mullins, D. C. Murdoch, F. J. Murray, C. A. Nelson, E. P. Northrop, C. O. Oakley, P. S. Olmstead, J. M. H. Olmsted, Oystein Ore, F. W. Owens, J. C. Oxtoby, C. K. Payne, R. S. Phillips, Everett Pitcher, E. L. Post, Walter Prenowitz, H. A. Rademacher, H. W. Raudenbush, H. W. Reddick, M. S. Rees, F. G. Reynolds, H. J. Riblet, Moses Richardson, R. G. D. Richardson, J. F. Ritt, H. E. Robbins, J. H. Roberts, H. P. Robertson, M. S. Robertson, S. L. Robinson, Benjamin Rosenbaum, J. E. Rosenthal, Barkley Rosser, Arthur Sard, Max Sasuly, Rubin Schatten, E. R. Schneckenburger, Abraham Schwartz, C. H. W. Sedgewick, I. E. Segal, Wladimir Seidel, Stephan Serghiesco, L. W. Sheridan, Jacob Sherman, Seymour Sherman, Max Shiffman, L. P. Siceloff, L. G. Simons, James Singer, L. L. Smail, M. F. Smiley, P. A. Smith, C. M. Sparrow, H. W. Steinhaus, R. C. Stephens, Wolfgang Sternberg, R. E. Street, W. C. Strodt, M. M. Sullivan, F. X. Sutton, J. D. Tamarkin, J. H. Taylor, B. J. Tepping, G. B. Thomas, J. M. Thomas, Arthur Tilley, C. B. Tompkins, W. R. Transue, A. W. Tucker, J. W. Tukey, Annita Tuller, Oswald Veblen, Abraham Wald, Henry Wallman, R. M. Walter, J. V. Wehausen, Louis Weisner, M. E. Wells, William Wernick, F. J. Weyl, Hermann Weyl, A. P. Wheeler,

O. L. Wheeler, A. L. Whiteman, Hassler Whitney, V. A. Widder, E. P. Wiggin, S. S. Wilks, John Williamson, Aurel Wintner, H. P. Wirth, W. H. Wise, Jack Wolfe, Jacob Wolfowitz, H. A. Wood, Oscar Zariski, Leo Zippin, O. J. Zobel.

The meeting opened Saturday morning with two sessions: Analysis, Professor Einar Hille presiding; and Algebra and Theory of Numbers, Professor B. W. Jones presiding.

At the opening of the afternoon general session, at which Professor Marston Morse presided, the Society voted, on recommendation of the Council, to adopt the following amendment to the by-laws as Article 6, Section 9:

Any member who has been retired from active service on account of age and has been a member of the Society for twenty years or more may, upon notification to the Secretary of such retirement, have his dues remitted, on the understanding that he will thereafter receive the programs of the meetings, but not the Bulletin.

On recommendation of the Council, the Society also approved sending the letter quoted below to sister scientific organizations in other parts of the world:

The American Mathematical Society, gathered at New York City for its February Meeting, marks this occasion by giving collective expression to the deep sympathy felt by its members for their many scientific colleagues who today are suffering the deprivations and the agonies brought upon them by the spreading cancer of war; and by giving collective expression also to their grave, even desperate, concern for the preservation of the cultural values and the effective organs of scientific research throughout the world during these days of destruction. In the cause of simple humanity and in the interest of the unborn generations for whom science can prepare benefits as yet but dimly described, the American Mathematical Society now appeals to its sister societies in every land—and most particularly to those in lands which are at war with one another—to exert all possible effort toward the conservation of the scientific resources of the world against the day when peace shall reign once more. The Society calls upon its sister societies to concern themselves especially for those scientists who, by the fortunes of war, may fall prisoner or may come under new flags, to the end that their individual sufferings may be mitigated and their scientific activity continued to the benefit of all men; and it declares its readiness to lend its good offices and its assistance, both moral and material, to those of its sister societies which may respond to this urgent appeal.

After the short business meeting, Professor B. O. Koopman gave an address entitled *The bases of probability*. The general session was followed by two sectional sessions: Geometry and Topology, Dr. T. W. Moore presiding; Logic, Statistics and Probability, Professor Barkley Rosser presiding.

Titles and cross references to the abstracts of the papers read follow below. Papers whose abstract numbers are followed by the letter *t* were read by title. The papers numbered 1 to 10 were read

before the section for Analysis; those numbered 11 to 18 before the section for Algebra and Theory of Numbers; those numbered 19 to 26 before the section for Geometry and Topology; those numbered 27 to 33 before the section for Logic, Statistics and Probability; papers numbered 34 to 65 were read by title. Paper 5 was read by Mr. Segal, paper 19 by Mr. Ling, paper 21 by Mr. Martin, paper 22 by Professor Kasner, paper 26 by Professor Courant, and paper 29 by Dr. Kac. Sister M. Patricia Callaghan was introduced by Professor Francis Regan, Mr. Henry Hurwitz by Professor G. D. Birkhoff, and Miss Harlan C. Miller by Professor R. L. Moore.

1. Seymour Sherman: *A comparison of linear measures of point sets in the plane*. Preliminary report. (Abstract 46-3-192.)
2. Jenny E. Rosenthal: *Generating functions and properties of certain orthogonal polynomials*. Preliminary report. (Abstract 46-3-187.)
3. Fritz Herzog: *Uniqueness theorems for rational functions*. (Abstract 46-3-174.)
4. M. M. Day: *Linear methods of summability*. (Abstract 46-3-164.)
5. Einar Hille and I. E. Segal: *Blaschke products as Laplace-Stieltjes integrals*. (Abstract 46-3-176.)
6. Tomlinson Fort: *Summability and the definition of a limit*. (Abstract 46-3-170.)
7. R. P. Agnew: *Tauberian conditions*. (Abstract 46-3-152.)
8. R. S. Phillips: *On the space of completely additive set functions*. (Abstract 46-3-183.)
9. J. Hobart Bushey: *Expansions of products of certain symmetric orthogonal polynomials*. (Abstract 46-3-160.)
10. F. G. Dressel: *The fundamental solution of the parabolic equation*. (Abstract 46-3-168.)
11. G. B. Thomas: *Regular positive ternary quadratic forms*. Preliminary report. (Abstract 46-3-195.)
12. H. J. Riblet: *Certain theorems for algebraic differential fields*. (Abstract 46-3-186.)
13. R. P. Dilworth: *A characterization of lattices of ideals*. (Abstract 46-3-166.)
14. Hermann Weyl: *Theory of reduction for arithmetical equivalence*. (Abstract 46-3-201.)
15. A. L. Whiteman: *Additive prime number theory in real quadratic fields*. (Abstract 46-3-151.)
16. E. R. Kolchin: *On the exponents of differential ideals*. (Abstract 46-3-179.)
17. S. A. Jennings: *Nilpotent groups and nilpotent rings*. (Abstract 46-3-177.)

18. John Williamson: *An algebraic problem involving the involutory integrals of linear dynamical systems.* (Abstract 46-3-202.)
19. D. P. Ling and Leon Recht: *Geodesics on a paraboloid of revolution.* Preliminary report. (Abstract 46-3-180.)
20. J. J. De Cicco: *The horn angle in the geometry of element-series.* (Abstract 46-1-58.)
21. A. V. Martin and J. H. Roberts: *Two-to-one transformations of 2-manifolds.* Preliminary report. (Abstract 46-3-148.)
22. Edward Kasner and J. J. De Cicco: *The conformal near-Moebius transformations.* (Abstract 46-1-92.)
23. G. A. Hedlund: *Surfaces of negative curvature and metric transitivity.* (Abstract 46-3-173.)
24. Everett Pitcher: *Homology groups under continuous maps. I.* (Abstract 46-5-216.)
25. I. N. Kagno: *On a certain non-separating graph on an orientable surface.* (Abstract 46-3-178.)
26. Richard Courant and N. Davids: *Minimal surfaces spanning closed manifolds.* (Abstract 46-3-163.)
27. William Wernick: *Complete sets of logical functions.* (Abstract 46-3-200.)
28. P. R. Halmos: *Statistics, set functions, and spectra.* (Abstract 46-3-144.)
29. R. P. Agnew and Mark Kac: *Translated functions and statistical independence.* (Abstract 46-3-153.)
30. A. C. Berry: *The accuracy of the Gaussian approximation to a sum of independent variates.* (Abstract 46-3-156.)
31. Wolfgang Sternberg: *The general limit theorem for probability densities.* (Abstract 46-5-218.)
32. W. K. Feller: *On the integrodifferential equations of purely discontinuous Markoff processes.* (Abstract 46-3-169.)
33. Abraham Wald: *Asymptotically most powerful tests of statistical hypotheses.* (Abstract 46-3-199.)
34. R. P. Agnew: *On Tauberian theorems for double series.* (Abstract 46-1-43-t.)
35. Reinhold Baer: *Abelian groups that are direct summands of every containing abelian group.* (Abstract 46-3-155-t.)
36. Garrett Birkhoff: *On a class of positive matrices.* (Abstract 46-3-139-t.)
37. W. Z. Birnbaum and H. S. Zuckerman: *On the properties of a collective.* (Abstract 46-3-157-t.)
38. A. B. Brown: *On transformation of multiple integrals.* (Abstract 46-3-158-t.)

39. L. E. Bush: *An asymptotic formula for the average sum of the digits of integers.* (Abstract 46-3-159-t.)
40. Sister M. Patricia Callaghan: *Generalized Frézier curves.* (Abstract 46-3-161-t.)
41. R. H. Cameron and W. T. Martin: *An unsymmetric Fubini theorem.* (Abstract 46-3-162-t.)
42. Nathaniel Coburn: *A characterization of Schouten's and Hayden's deformation methods.* (Abstract 46-3-140-t.)
43. Nathaniel Coburn: *Conformal unitary spaces.* (Abstract 46-3-141-t.)
44. M. M. Day: *The spaces L^p with $0 < p < 1$.* (Abstract 46-3-165-t.)
45. J. J. De Cicco: *The magnilong near-Laguerre transformations.* (Abstract 46-1-59-t.)
46. F. G. Dressel: *A Stieltjes integral equation.* (Abstract 46-3-167-t.)
47. G. A. Hedlund: *A new proof for a metrically transitive system.* (Abstract 46-3-172-t.)
48. E. V. Huntington: *Congressional reapportionment by the method of smallest divisors.* (Abstract 46-5-208-t.)
49. Henry Hurwitz: *Total regularity of infinite matrix transformations.* (Abstract 46-3-146-t.)
50. Edward Kasner and J. J. De Cicco: *Transformation theory of integrable double-series of lineal elements.* (Abstract 46-1-93-t.)
51. A. N. Lowan: *Note on upper bounds of the derivatives of certain transcendental functions.* (Abstract 46-1-98-t.)
52. A. N. Lowan and Gertrude Blanch: *Analysis of computing errors in the process of analytic continuation.* (Abstract 46-3-147-t.)
53. J. K. L. MacDonald: *Existence theorems for node and amplitude properties near singularities of linear differential equations.* (Abstract 46-3-181-t.)
54. Saunders MacLane: *Note on the relative structure of p -adic fields.* (Abstract 46-3-182-t.)
55. Harlan C. Miller: *A theorem concerning closed and compact point sets which lie in connected domains.* (Abstract 46-1-106-t.)
56. Eric Reissner: *On Green's function of $\nabla^2 \nabla^2 w = 0$ for the half plane.* (Abstract 46-3-185-t.)
57. L. B. Robinson: *The solution of a functional equation on the contour of the unit circle.* (Abstract 46-5-217-t.)
58. Peter Scherk: *Estimations with integers in the demesne of the α - β -hypothesis.* (Abstract 46-3-188-t.)
59. F. K. Schmidt and Saunders MacLane: *On inseparable fields.* (Abstract 46-3-189-t.)

60. W. T. Scott: *Approximation to real irrationals by certain classes of rational fractions.* (Abstract 46-3-191-*t*.)
61. M. F. Smiley: *Measurability and modularity in the theory of lattices.* (Abstract 46-3-193-*t*.)
62. Gabor Szegö: *Remarks on a note of R. Wilson and related subjects.* (Abstract 46-3-194-*t*.)
63. H. S. Vandiver: *Elements of a theory of abstract discrete semi-groups.* (Abstract 46-3-197-*t*.)
64. H. S. Vandiver: *On general methods for obtaining congruences involving Bernoulli numbers.* (Abstract 46-3-198-*t*.)
65. H. S. Wall: *Continued fractions and totally monotone sequences.* (Abstract 46-1-130-*t*.)

T. R. HOLLCROFT,
Associate Secretary

CORRECTION

In the report of the meeting of the Society in New York on October 28, 1939, which appears in the current volume of this journal, pages 1-5, the following corrections should be made.

- P. 3, paper 21. Abstract 46-1-17 instead of Abstract 46-1-456.
P. 4, paper 28. Abstract 45-9-315 instead of Abstract 45-11-315.
P. 4, paper 30. Abstract 46-1-2-*t* instead of Abstract 46-1-441-*t*.
P. 4, paper 43. Abstract 46-1-32-*t* instead of Abstract 46-1-471-*t*.