# THE APRIL MEETING IN NEW YORK

The three hundred eighty-sixth meeting of the American Mathematical Society was held at Columbia University on Friday and Saturday, April 3–4, 1942. The attendance was approximately two hundred seventy-five including the following two hundred four members of the Society:

Milton Abramowitz, C. R. Adams, Felix Adler, Leonidas Alaoglu, C. B. Allendoerfer, Lawrence Annenberg, R. G. Archibald, B. H. Arnold, L. A. Aroian, Y. K. Bal, J. D. Bankier, J. J. Barron, Alfred Basch, P. T. Bateman, M. F. Becker, P. O. Bell, Stefan Bergman, Garrett Birkhoff, Gertrude Blanch, M. L. Boas, R. P. Boas, H. F. Bohnenblust, Samuel Borofsky, C. C. Bramble, Richard Brauer, Jewell H. Bushey, J. H. Bushey, W. E. Byrne, W. B. Campbell, Claude Chevalley, D. E. Christie, Alonzo Church, M.D. Clement, Harvey Cohn, J. B. Coleman, L. M. Comer, T. F. Cope, Richard Courant, W. H. H. Cowles, H. B. Curry, M. D. Darkow, Norman Davids, A. H. Diamond, R. P. Dilworth, J. L. Doob, Jesse Douglas, C. H. Dowker, Jacques Dutka, John Dyer-Bennet, J. E. Eaton, W. F. Eberlein, M. L. Elveback, Benjamin Epstein, Paul Erdös, J. M. Feld, W. K. Feller, Aaron Fialkow, F. A. Ficken, W. B. Fite, R. M. Foster, G. A. Foyle, J. S. Frame, K. O. Friedrichs, Orrin Frink, Guido Fubini, R. E. Fullerton, H. P. Geiringer, J. H. Giese, B. P. Gill, A. M. Gleason, M. C. Gray, H. J. Greenberg, Lewis Greenwald, C. C. Grove, Laura Guggenbühl, N. G. Gunderson, Jacques Hadamard, Theodore Hailperin, F. C. Hall, P. R. Halmos, K. E. Hazard, M. H. Heins, Edward Helly, Olaf Helmer, E. H. C. Hildebrandt, Banesh Hoffmann, T. R. Hollcroft, Harold Hotelling, E. M. Hull, Witold Hurewicz, W. A. Hurwitz, L. C. Hutchinson, R. P. Isaacs, Nathan Jacobson, R. A. Johnson, G. K. Kalisch, Edward Kasner, S. A. Kiss, S. C. Kleene, R. B. Kleinschmidt, J. R. Kline, E. R. Kolchin, B. O. Koopman, Arthur Korn, M. E. Ladue, J. S. Le Caine, Solomon Lefschetz, B. A. Lengyel, Howard Levi, Norman Levinson, E. R. Lorch, A. N. Lowan, N. H. McCoy, J. C. C. McKinsey, Brockway McMillan, L. A. MacColl, J. K. L. MacDonald, C. C. MacDuffee, G. W. Mackey, G. R. MacLane, H. M. MacNeille, M. S. Macphail, P. T. Maker, Imanuel Marx, W. P. Mason, A. E. Meder, H. L. Mintzer, R. E. von Mises, E. C. Molina, Deane Montgomery, Richard Morris, Marston Morse, G. W. Mullins, F. J. Murray, C. A. Nelson, N. D. Nelson, Philip Newman, K. L. Nielsen, C. O. Oakley, Rufus Oldenburger, Oystein Ore, J. C. Oxtoby, N. G. Parke, L. G. Peck, A. S. Peters, George Polya, E. L. Post, Willy Prager, M. H. Protter, R. G. Putnam, J. F. Randolph, C. J. Rees, M. S. Rees, Eric Reissner, R. W. Rempfer, H. J. Riblet, Moses Richardson, R. G. D. Richardson, J. F. Ritt, H. E. Robbins, J. H. Roberts, M. S. Robertson, S. L. Robinson, Benjamin Rosenbaum, J. E. Rosenthal, Raphaël Salem, Hans Samelson, Arthur Sard, L. J. Savage, Rubin Schatten, M. G. Scherberg, I. J. Schoenberg, Alberta Schuettler, I. E. Segal, I. M. Sheffer, Seymour Sherman, C. A. Shook, P. A. Smith, D. C. Spencer, Wolfgang Sternberg, J. J. Stoker, R. E. Street, R. G. Sturm, Alvin Sugar, J. L. Synge, Otto Szász, J. D. Tamarkin, M. E. Taylor, J. W. Tukey, J. L. Vanderslice, G. L. Walker, Henry Wallman, R. M. Walter, W. R. Wasow, Louis Weisner, Hermann Weyl, A. L. Whiteman, D. V. Widder, V. A. Widder, Norbert Wiener, John Williamson, Audrey Wishard, Oscar Zariski, Leo Zippin.

The meeting opened Friday morning with a section for papers in

analysis and applied mathematics, Professor Norman Levinson presiding, and another for algebra, geometry and logic, Professor Alonzo Church presiding.

Friday afternoon there was a symposium on topics in the theory of functions, at which Vice President C. C. MacDuffee and President Marston Morse presided. These addresses were given: *On entire functions of exponential type*, by Dr. R. P. Boas of Duke University; and, *On the zeros of the derivatives of a function and its analytic character*, by Professor George Polya of Smith College. The discussion was led by Professor Norman Levinson of the Massachusetts Institute of Technology and Professor I. J. Schoenberg of the University of Pennsylvania.

Saturday morning was devoted to a symposium on aeronautics at which Vice President J. D. Tamarkin presided. There was an address on *Theory of wing flutter*, by Dr. Theodore Theodorsen of Langley Field, Virginia, and on *New approach to the three-dimensional wing theory*, by Dr. R. E. von Mises of Harvard University. The discussion was led by Professor Willy Prager of Brown University, Dr. Eric Reissner of the Massachusetts Institute of Technology, Professor K. O. Friedrichs of New York University, and Professor J. L. Synge of the University of Toronto.

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. Papers numbered 1–8 were read before the section for analysis and applied mathematics; those numbered 9–17 before the section for algebra, geometry and logic; those numbered 18–39 were read by title. Paper 7 was read by Professor Roberts, and paper 12 by Mr. Tuan. Dr. Bers was introduced by Dr. A. M. Gelbart.

1. Lipman Bers: *A property of harmonic functions*. (Abstract 48-5-170.)

2. Otto Szász: *On sequences of polynomials and the distribution of their zeros*. (Abstract 48-5-193.)

3. J. H. Bushey: *The distribution function of the sample total under the type β hypothesis*. (Abstract 48-5-217.)

4. Hermann Weyl: *Solution of the simplest boundary-layer problems in hydrodynamics*. (Abstract 48-5-198.)

5. Hilda P. Geiringer: *On the numerical solution of linear problems by group iteration*. (Abstract 48-5-202.)

6. Stefan Bergman: *Three-dimensional flow of a perfect incompressible fluid and its singularities*. (Abstract 48-5-201.)

7. J. H. Roberts and Paul Civin: *Sections of continuous collections*. (Abstract 48-5-224.)

8. Witold Hurewicz: *Ergodic theorem without invariant measure.* (Abstract 48-7-235.)

9. B. H. Arnold: *Rings of transformations of certain vector spaces.* Preliminary report. (Abstract 48-5-142.)

10. F. A. Ficken: *On Rosser's generalization of Euclid's algorithm.* Preliminary report. (Abstract 48-5-151.)

11. Rufus Oldenburger: *The index of a quadratic form for an arbitrary field.* (Abstract 48-5-162.)

12. Richard Brauer and Hsio-Fu Tuan: *Some remarks on simple groups of finite order.* Preliminary report. (Abstract 48-5-147.)

13. J. S. Frame: *Double coset matrices and group characters.* (Abstract 48-5-152.)

14. S. C. Kleene: *On the forms of the predicates in the theory of constructive ordinals.* Preliminary report. (Abstract 48-5-215.)

15. L. C. Hutchinson: *On the linear line complex in n-space.* (Abstract 48-5-208.)

16. Aaron Fialkow: *Conformal differential geometry of a subspace.* (Abstract 48-5-207.)

17. R. P. Dilworth: *The partition lattice.* (Abstract 48-5-150.)

18. Stefan Bergman: *Determination of pressure in the two-dimensional flow of an incompressible perfect fluid.* (Abstract 48-5-200-t.)

19. J. H. Bushey: *The distribution function of the mean under the type $\alpha$ hypothesis.* (Abstract 48-5-216-t.)

20. J. H. Bushey: *The products of certain discrete and continuous orthogonal polynomials.* (Abstract 48-5-218-t.)

21. Leonard Carlitz: *On the reciprocal of certain types of Hurwitz series.* (Abstract 48-5-148-t.)

22. F. G. Dressel: *The fundamental solution of the parabolic equation.* II. (Abstract 48-5-171-t.)

23. A. M. Gelbart: *Bounds for pressure in a two-dimensional flow of an incompressible perfect fluid.* (Abstract 48-5-203-t.)

24. P. R. Halmos and Hans Samelson: *On monothetic groups.* (Abstract 48-7-250-t.)

25. Nathan Jacobson: *Classes of restricted Lie algebras of characteristic $p$.* II. (Abstract 48-7-231-t.)

26. Meyer Karlin: *Characterization of the extremals of a variation problem of higher order in the plane.* Preliminary report. (Abstract 48-5-175-t.)

27. Joseph Lehner: *On certain irrational modular equations.* (Abstract 48-5-156-t.)

28. F. A. Lewis: *Generators of permutation groups simply isomorphic with $LF(2, p^n)$.* (Abstract 48-5-157-t.)

29. A. N. Lowan, H. E. Salzer, and Abraham Hillman: *Coefficients of differences in the expansion of derivatives in terms of advancing differences*. (Abstract 48-5-176-*t*.)

30. Rufus Oldenburger: *Repeated linear factors of forms*. (Abstract 48-5-161-*t*.)

31. Harry Pollard: *An inversion formula for the Stieltjes transform*. (Abstract 48-5-182-*t*.)

32. Harry Pollard: *On subseries of a convergent series*. (Abstract 48-5-183-*t*.)

33. H. A. Rademacher: *On the Bloch-Landau constant*. (Abstract 48-5-185-*t*.)

34. M. F. Smiley: *A remark on S. Kakutani's characterization of* (*L*)-*spaces*. (Abstract 48-5-191-*t*.)

35. M. F. Smiley and W. R. Transue: *Applications of transitivities of betweenness in lattice theory*. (Abstract 48-5-165-*t*.)

36. J. L. Walsh: *On the overconvergence, degree of convergence, and zeros of sequences of analytic functions*. (Abstract 48-5-196-*t*.)

37. G. T. Whyburn: *Coherent and saturated collections*. (Abstract 48-5-226-*t*.)

38. G. T. Whyburn: *On the interiority of mappings*. (Abstract 48-5-227-*t*.)

39. G. T. Whyburn: *Unitary subcontinua*. (Abstract 48-5-228-*t*.)

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T. R. HOLLCROFT,
*Associate Secretary*

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