

## THE OCTOBER MEETING IN NEW YORK

The three hundred eighty-first meeting of the American Mathematical Society was held at Columbia University on Saturday, October 25, 1941. The attendance included the following one hundred sixty-seven members of the Society:

A. A. Albert, G. K. Anderson, R. L. Anderson, Lawrence Annenberg, R. G. Archibald, L. A. Aroian, S. F. Barber, E. F. Beckenbach, M. F. Becker, Gertrude Blanch, H. F. Bohnenblust, S. G. Bourne, C. B. Boyer, A. T. Brauer, H. W. Brinkmann, H. C. Brodie, A. B. Brown, R. S. Burington, Jewell H. Bushey, S. S. Cairns, D. E. Christie, J. A. Clarkson, M. D. Clement, R. M. Cohn, T. F. Cope, Richard Courant, Ruth Crucet, J. H. Curtiss, M. D. Darkow, Norman Davids, D. R. Davis, Jesse Douglas, Arnold Dresden, Jacques Dutka, J. E. Eaton, M. L. Elbeback, Paul Erdős, F. H. Escott, J. M. Feld, Aaron Fialkow, W. B. Fite, Edward Fleisher, A. I. Forsythe, J. S. Frame, K. O. Friedrichs, H. P. Geiringer, B. P. Gill, Saul Gorn, L. M. Graves, M. C. Gray, C. C. Grove, E. J. Gumbel, Margaret Gurney, W. W. Gutzman, D. W. Hall, F. C. Hall, N. A. Hall, Hans-Karl Hammer, D. C. Harkin, M. H. Heins, Edward Helly, Olaf Helmer, E. H. C. Hildebrandt, L. S. Hill, Banesh Hoffmann, T. R. Hollcroft, M. W. Hopkins, Harold Hotelling, E. M. Hull, R. P. Isaacs, S. A. Joffe, R. A. Johnson, B. W. Jones, Shizuo Kakutani, G. K. Kalisch, Edward Kasner, L. S. Kennison, A. R. Kirby, J. R. Kline, E. R. Kolchin, B. O. Koopman, Arthur Korn, Jack Laderman, M. E. Ladue, Solomon Lefschetz, B. A. Lengyel, Howard Levi, Marie Litzinger, E. R. Lorch, L. A. Lorch, Jack Lorell, A. N. Lowan, Eugene Lukacs, L. A. MacColl, C. C. MacDuffee, H. F. MacNeish, Dorothy Maharam, P. T. Maker, A. J. Maria, D. H. Maria, Walther Mayer, H. L. Mintzer, A. K. Mitchell, Don Mittleman, Morris Monsky, Marston Morse, F. J. Murray, C. A. Nelson, O. E. Neugebauer, J. C. Oxtoby, Everett Pitcher, E. L. Post, Walter Prenowitz, M. H. Protter, R. G. Putnam, H. A. Rademacher, C. J. Rees, M. S. Rees, R. W. Rempfer, H. J. Riblet, Moses Richardson, M. S. Robertson, S. L. Robinson, Benjamin Rosenbaum, J. E. Rosenthal, Arthur Sard, L. J. Savage, Rubin Schatten, Henry Scheffé, I. J. Schoenberg, L. W. Sheridan, Seymour Sherman, Max Shiffman, L. P. Sicheloff, James Singer, L. L. Smail, D. M. Smiley, M. F. Smiley, P. A. Smith, Ernst Snapper, Virgil Snyder, Abraham Spitzbart, Wolfgang Sternberg, J. J. Stoker, W. C. Strodt, Alvin Sugar, M. M. Sullivan, Fred Supnick, J. D. Tamarkin, R. M. Thrall, W. R. Transue, W. J. Trjitzinsky, J. W. Tukey, J. L. Vanderslice, Oswald Veblen, G. C. Webber, Louis Weisner, G. W. Whaples, O. L. Wheeler, H. S. White, Hassler Whitney, John Williamson, Audrey Wishard, Jacob Wolfowitz, M. A. Woodbury, Leo Zippin, Antoni Zygmund.

The meeting opened in the morning with a general session for contributed papers at which Professor W. J. Trjitzinsky presided. President Marston Morse presided at the afternoon session which began with a short business meeting for consideration of the amendment of Section 9 of Article VII of the By-Laws proposed by the Council. The amendment was adopted. The section as amended is given below:

*Section 9.* Any member not in arrears of dues may become a life member on the payment of a sum to be determined in accordance with actuarial principles. A life

member shall have for life the status and privileges of an ordinary member, without further payment of dues. After October 25, 1941, no additional applications for life memberships will be accepted.

After the business meeting Professor I. J. Schoenberg gave an address entitled *Some analytical aspects of isometric imbedding*.

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 9 were read at the morning session; those numbered 10 to 27 were read by title. Dr. Bers was introduced by Dr. A. M. Gelbart.

1. Rubin Schatten: *On the direct product of Banach spaces*. (Abstract 47-11-476.)
2. Walter Prenowitz: *Descriptive geometries as multigroups*. (Abstract 47-11-481.)
3. E. F. Beckenbach: *On the analytic prolongation of a minimal surface*. (Abstract 47-9-418.)
4. S. S. Cairns: *The space of a variable geodesic complex on a sphere*. (Abstract 47-9-438.)
5. J. H. Curtiss: *On the distribution of the quotient of two chance variables*. (Abstract 47-9-434.)
6. E. J. Gumbel: *Simple tests for given statistical hypotheses*. (Abstract 47-11-485.)
7. Arthur Korn: *On the problem of pulsating spheres in a liquid*. (Abstract 47-11-478.)
8. Ernst Snapper: *Co-maximal linear sets and products of linear sets*. (Abstract 47-11-460.)
9. B. W. Jones: *The number of classes in related genera of quadratic forms*. (Abstract 48-1-13.)
10. Lipman Bers: *A convergence theorem for analytic functions of two variables*. (Abstract 47-11-467-*t*.)
11. D. G. Bourgin: *Linear topological spaces*. (Abstract 47-9-437-*t*.)
12. A. B. Brown: *Independent parameters for sets of functions*. (Abstract 47-11-468-*t*.)
13. S. S. Cairns: *Topological mapping of a Brouwer 4-manifold on an analytic Riemannian 4-manifold*. (Abstract 47-9-439-*t*.)
14. A. D. Campbell: *On the application of an algebra of sets to group theory*. (Abstract 47-11-455-*t*.)
15. George Comenetz: *Isotropic curves on a surface*. (Abstract 47-11-479-*t*.)
16. J. J. DeCicco: *Bi-isothermal systems of curves*. (Abstract 47-11-480-*t*.)

17. Howard Levi: *A characterization of polynomial rings by means of order relations.* (Abstract 47-11-458-t.)
18. A. N. Lowan, Norman Davids and Arthur Levinson: *Tables for Gauss' mechanical quadrature formula.* (Abstract 47-9-413-t.)
19. A. N. Lowan and William Horenstein: *On the function  $H(m, a, x) = \exp(-ix)F(m+1-ia, 2m+2, 2ix)$ .* (Abstract 47-11-470-t.)
20. R. E. O'Connor: *A theorem of Diophantine approximation and an application to the values of a linear form.* (Abstract 47-11-462-t.)
21. R. E. O'Connor: *Representation of integers by power-products of two integers.* (Abstract 47-11-463-t.)
22. R. E. O'Connor: *Representation of integers by power-products of two real numbers.* (Abstract 47-11-464-t.)
23. Harry Pollard: *Legendre polynomials and the Hausdorff moment problem.* (Abstract 47-9-400-t.)
24. Maxwell Reade and E. F. Beckenbach: *Square averages and a class of harmonic polynomials.* (Abstract 47-11-474-t.)
25. J. F. Ritt: *Complete difference ideals.* (Abstract 47-11-475-t.)
26. A. R. Schweitzer: *Concerning general abstract relational spaces.* III. (Abstract 47-9-430-t.)
27. H. S. Wall: *The behavior of certain Stieltjes continued fractions near the singular line.* (Abstract 47-11-477-t.)

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