

BULLETIN
OF THE
AMERICAN MATHEMATICAL SOCIETY

THE THANKSGIVING MEETING IN COLUMBUS

The two hundred ninety-fourth regular meeting of the Society was held at the Ohio State University on Friday and Saturday, November 27–28, 1931. About eighty persons attended the meeting, among whom were the following fifty-one members of the Society:

R. B. Allen, W. L. Ayres, F. R. Bamforth, G. M. Bareis, I. A. Barnett, W. D. Baten, H. L. Black, Henry Blumberg, R. S. Burington, L. E. Bush, A. D. Campbell, R. V. Churchill, Ben Dushnik, H. M. Gehman, W. C. Graustein, E. H. Hildebrandt, T. H. Hildebrandt, M. H. Ingraham, H. W. Kuhn, Lincoln LaPaz, C. I. Lubin, C. C. MacDuffee, E. J. McShane, G. M. Merriman, C. N. Moore, C. C. Morris, A. L. Nelson, R. L. Newlin, F. W. Owens, H. B. Owens, G. A. Parkinson, T. S. Peterson, H. S. Pollard, Saul Pollock, Tibor Radó, G. Y. Rainich, S. E. Rasor, C. E. Rhodes, S. A. Rowland, H. C. Shaub, Grace Shover, G. W. Starcher, P. M. Swingle, H. P. Thielman, T. O. Walton, J. H. Weaver, R. L. Wilder, F. B. Wiley, C. O. Williamson, B. F. Yanney, C. H. Yeaton.

On Friday evening a dinner was held at the Faculty Club. The dinner was attended by sixty persons.

On Friday afternoon Professor H. M. Gehman gave an address entitled *Homeomorphic geometry*. On Saturday morning Professor W. C. Graustein spoke to the Society on *Parallelism of Levi-Civita in classical differential geometry*. These addresses were delivered upon invitation of the Program Committee.

The meetings were held in the Administration Building and the Faculty Club on the third floor was made available for social purposes. On Saturday afternoon, upon rising vote, the thanks of those present were given to their hosts for the splendid arrangements made for this meeting.

Vice-President W. C. Graustein presided at the meeting on Friday afternoon, Professor H. W. Kuhn on Saturday morning, and Professor T. H. Hildebrandt on Saturday afternoon. The papers whose abstract numbers are followed by t were read by title. The paper of Professor Davis was read by Mr. Keller,

introduced by Professor Davis, and the paper of Professor Roth by Professor M. H. Ingraham. Professor Lanczos was introduced by Professor William Marshall, and Mrs. Miller by Professor P. R. Rider. Papers numbered 1–5 were read Friday afternoon, those numbered 6–11 Saturday morning, and papers numbered 12–26 Saturday afternoon.

1. *Variation problems of which the extremals are minimal surfaces*, by Professor Lincoln LaPaz. (Abstract No. 37–11–378.)

2. *On the Stieltjes integral*, by Dr. Ben Dushnik. (Abstract No. 37–11–379.)

3. *On the absolute convergence of the developments in Bessel's functions*, by Professor C. N. Moore. (Abstract No. 37–11–380.)

4. *Frequency laws for the sum of n variables which are subject each to given frequency laws*, by Professor W. D. Baten. (Abstract No. 37–11–381.)

5. *Polynomial approximation by the method of least squares*, by Professor H. T. Davis. (Abstract No. 37–11–382.)

6. *On the determination of formulae for the orders of line loci in five-space by graphic representation*, by Professor Saul Pollock. (Abstract No. 37–11–383.)

7. *On convex regions*, by Professor Tibor Radó. (Abstract No. 37–11–384.)

8. *On the linking of Jordan continua in E_n by $(n-2)$ -cycles*, by Professor R. L. Wilder. (Abstract No. 37–11–385.)

9. *On a certain neighborhood property*, by Professor W. L. Ayres. (Abstract No. 38–1–1.)

10. *Covariant form of a special case of Dirac's equations*, by Professor G. Y. Rainich. (Abstract No. 37–11–386.)

11. *The electromagnetic field as a natural property of Riemannian geometry*, by Professor Cornelius Lanczos. (Abstract No. 37–11–387.)

12. *Class number in a linear associative algebra*, by Miss Grace Shover. (Abstract No. 37–11–388.)

13. *Note on the discriminant matrix of an algebra*, by Dr. L. E. Bush. (Abstract No. 37–11–389.)

14. *On the equivalence of the decompositions of an algebra with respect to a principal idempotent*, by Dr. L. E. Bush. (Abstract No. 37–11–390.)

15. *On algebraic equations having only real roots*, by Professor W. E. Roth. (Abstract No. 37–11–391.)

16. *Canonical forms for symmetric linear vector functions in pseudo-euclidean space*, by Professor R. V. Churchill. (Abstract No. 37-11-392.)

17. *Four points of intersection of lines drawn from the vertices of a triangle to the points of contact of the nine point circle with the in- and ex-circles*, by Mrs. Pearl C. Miller. (Abstract No. 37-11-393.)

18. *The symmetric (n, n) -correspondence and some geometric applications*, by Professor Arnold Emch. (Abstract No. 37-11-394-t.)

19. *An integral addition theorem for Bessel functions*, by Mr. H. P. Thielman. (Abstract No. 38-1-2.)

20. *Riquier's existence theorems*, by Professor J. M. Thomas. (Abstract No. 37-11-395-t.)

21. *Fourier developments for certain pseudo-periodic functions in two variables*, by Professor M. A. Basoco. (Abstract No. 37-11-396-t.)

22. *On finite and infinite completely monotonic sequences*, by Dr. I. J. Schoenberg. (Abstract No. 37-11-397-t.)

23. *Properties of coverings of abstract type related to reducibility*, by Professor E. W. Chittenden and Mr. Selby Robinson. (Abstract No. 37-11-398-t.)

24. *The linear graphs associated with electrical circuits*, by Mr. R. M. Foster. (Abstract No. 37-11-399-t.)

25. *On extending a continuous $(1-1)$ correspondence of continuous curves on a sphere*, by Dr. V. W. Adkisson. (Abstract No. 37-11-400-t.)

26. *On the minors of absolutely convergent determinants*, by Professor L. W. Cohen. (Abstract No. 37-11-401-t.)

M. H. INGRAHAM,
Associate Secretary