THE APRIL MEETING IN BERKELEY

The two hundred ninetieth regular meeting of the Society was held at the University of California, Berkeley, California, on Saturday, April 11, 1931. The first session was called to order by Professor Uspensky at 10:30 a.m. The meeting was presided over later by Professor Hedrick.

There were present during the day some thirty-five persons, including the following twenty-three members of the Society:

N. M. Alderton, A. D. B. Andrews, H. M. Bacon, B. A. Bernstein, Thomas Buck, C. C. Craig, E. R. Hedrick, Harold Hotelling, D. H. Lehmer, D. N. Lehmer, S. H. Levy, E. W. McDonald, F. R. Morris C. A. Noble, T. M. Putnam, Saul Pollock, J. A. G. Shirk, Pauline Sperry, H. W. Stager, W. M. Whyburn, A. R. Williams, B. C. Wong, Kamcheung Woo.

The titles of papers read at the meeting follow. Those whose abstract numbers are followed by the letter *t* were read by title.

1. *On unit-zero Boolean representations of operations and relations*, by Professor B. A. Bernstein. (Abstract No. 37-3-155.)

2. *Note on the condition that a Boolean equation have a unique solution*, by Professor B. A. Bernstein. (Abstract No. 37-3-156-*t*.)

3. *Quadratic fields over the field of rational functions, modulo 2*, by Dr. Leonard Carlitz (National Research Fellow). (Abstract No. 37-3-159-*t*.)

4. *New Diophantine automorphisms*, by Dr. Leonard Carlitz (National Research Fellow). (Abstract No. 37-3-160-*t*.)

5. *A class of algebraic fields of characteristic p*, by Dr. Leonard Carlitz (National Research Fellow). (Abstract No. 37-3-158-*t*.)

6. *A problem in additive arithmetic*, by Dr. Leonard Carlitz (National Research Fellow). (Abstract No. 37-3-157-*t*.)

7. *On the composition of dependent elementary errors*, by Dr. C. C. Craig (National Research Fellow). (Abstract No. 37-5-211.)

8. *Note on the distribution of means of samples of N drawn from a type A population*, by Dr. C. C. Craig (National Research Fellow). (Abstract No. 37-5-212-*t*.)

9. *Sampling in the case of correlated observations*, by Dr. C. C. Craig (National Research Fellow). (Abstract No. 37-5-213-*t*.)

10. *On a property of the semi-invariants by Thiele*, by Dr. C. C. Craig (National Research Fellow). (Abstract No. 37–5–214–*t*.)

11. *Determinants and the real roots of an equation*, by Professor Raymond Garver. (Abstract No. 37–5–215–*t*.)

12. *The generalization of Student's ratio*, by Professor Harold Hotelling. (Abstract No. 37–5–216.)

13. *Arithmetic periodicity of Bessel functions*, by Dr. D. H. Lehmer (National Research Fellow). (Abstract No. 37–3–170.)

14. *On the arithmetic of double series*, by Dr. D. H. Lehmer (National Research Fellow.) (Abstract No. 37–3–171–*t*.)

15. *On factoring large numbers*, by Dr. D. H. Lehmer (National Research Fellow) and Mr. R. E. Powers. (Abstract No. 37–5–217–*t*.)

16. *Concerning certain one-parameter continuous functional groups and their integro-differential invariants*, by Professor A. D. Michal. (Abstract No. 37–5–218–*t*.)

17. *A theory of integral invariants in composite functional spaces*, by Professor A. D. Michal. (Abstract No. 37–5–219–*t*.)

18. *On the determination of line loci in four-space by a graphic method in geometry*, by Mr. Saul Pollock. (Abstract No. 37–5–220.)

19. *A property related to completeness*, by Professor J. H. Roberts. (Abstract No. 37–3–169–*t*.)

20. *Solutions of homogeneous linear difference equations by means of infinite determinants*, by Professor A. A. Shaw. (Abstract No. 37–5–221–*t*.)

21. *A problem in the geometry of numbers*, by Professor J. V. Uspensky. (Abstract No. 375–5–222.)

22. *System of Appell polynomials*, by Professor Morgan Ward. (Abstract No. 37–3–161–*t*.)

23. *Conditions for the solubility of the Diophantine equation*, by Professor Morgan Ward. (Abstract No. 37–3–163–*t*.)

24. *The linear form of numbers represented by a homogeneous*

polynomial in any number of variables, by Professor Morgan Ward. (Abstract No. 37–3–166–*t*.)

25. *Orthogonal Appell polynomials*, by Professor Morgan Ward. (Abstract No. 37–3–165–*t*.)

26. *Orthogonal and periodic systems of Appell polynomials*, by Professor Morgan Ward. (Abstract No. 37–3–164–*t*.)

27. *Some arithmetical properties of sequences satisfying a linear recursion relation*, by Professor Morgan Ward. (Abstract No. 37–3–162–*t*.)

28. *On the Lebesgue integral*, by Professor W. M. Whyburn. (Abstract No. 37–3–167.)

29. *Generalization of a theorem due to C. M. Cleveland*, by Dr. Leo Zippin (National Research Fellow). (Abstract No. 37–3–168–*t*.)

T. M. PUTNAM,
Associate Secretary