

THE APRIL MEETING IN NEW YORK

The five hundred forty-sixth meeting of the American Mathematical Society was held on Thursday, Friday, and Saturday, April 24–26, 1958, at Columbia University. A Symposium on Combinatorial Designs and Analysis (sponsored by the Society with the aid of the Office of Ordnance Research) was held in conjunction with the regular meeting. About 450 persons attended, including 390 members of the Society.

By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings, Professor I. M. Singer of the Massachusetts Institute of Technology addressed the Society on *Connections and holonomy groups* at 2:00 P.M. on Friday, and Professor J. C. Moore of Princeton University delivered an hour address entitled *A survey of some modern developments in homotopy theory* at 2:00 P.M. on Saturday. Professors W. S. Massey and N. E. Steenrod presided at these sessions respectively.

The Symposium was divided into four sessions which met at 10:00 A.M. and 2:00 P.M. on Thursday, 10:00 A.M. on Friday, and 10:00 A.M. on Saturday. At the first session, devoted to Existence and Construction of Combinatorial Designs, participants in the Symposium were welcomed by Lt. Colonel J. B. Sestito of the Office of Ordnance Research, U. S. Army. The following papers were presented: *Current studies on combinatorial designs* by Professor Marshall Hall, Jr. of Ohio State University; *Quadratic extensions of cyclic planes* by Professor R. H. Bruck of the University of Wisconsin; *Homomorphisms of projective planes* by Professor D. R. Hughes of Ohio State University; *The cyclotomic number of order 10* by Professor A. L. Whiteman of the University of Southern California; *Finite division algebras and finite planes* by Professor A. A. Albert of the University of Chicago.

At the second session, devoted to Combinatorial Analysis of Discrete Extremal Problems, the following papers were presented: *Some recent applications of the theory of linear inequalities to extremal combinatorial analysis* by Dr. A. J. Hoffman of the General Electric Company; *Compound and induced matrices in combinatorial analysis* by Professor H. J. Ryser of Ohio State University; *Duality structure* by Professor A. W. Tucker of Princeton University; *Linear inequalities and the Pauli principle* by Professor H. W. Kuhn of Bryn Mawr College; *On some communication network problems* by Dr. R. E. Kalaba of the RAND Corporation; *Permanents of doubly stochastic matrices* by Dr. Morris Newman of the National Bureau of Standards.