

THE SEPTEMBER MEETING OF THE SAN FRANCISCO SECTION.

THE fourteenth regular meeting of the San Francisco Section of the AMERICAN MATHEMATICAL SOCIETY was held at the University of California, Saturday, September 26. The following eleven members of the Society were present: Professor R. E. Allardice, Professor H. F. Blichfeldt, Professor M. W. Haskell, Professor L. M. Hoskins, Professor D. N. Lehmer, Professor J. H. McDonald, Professor H. C. Moreno, Professor C. A. Noble, Professor T. M. Putnam, Mr. H. W. Stager, Mr. J. D. Suter.

Professor D. N. Lehmer was elected to succeed Professor Hoskins as chairman of the Section. The present Secretary was reëlected, and Professors Blichfeldt and McDonald were named to serve with the secretary on the program committee, Dr. Blichfeldt being designated as chairman of the committee.

The two meetings in 1909 will be held on February 27, at Stanford University, and on September 25, at the University of California.

The following papers were read at this meeting:

- (1) Professor H. F. BLICHFELDT: "A theorem on simple groups."
- (2) Professor J. H. McDONALD: "On Fourier series and expansions in spherical harmonics."
- (3) Professor H. C. MORENO: "On a class of ruled loci."
- (4) Dr. ARTHUR RANUM: "The general term of a recurring series."
- (5) Professor C. A. NOBLE: "Necessary conditions that three or more partial differential equations of the second order shall have common solutions."

Abstracts of these papers are given below in the order of their presentation.

1. Professor Blichfeldt's paper is in substance as follows: Let F be a group of order $p^\lambda n$, p being prime to n , containing a Sylow subgroup G of order p^λ . This has a subgroup G_1 of order $p^{\lambda-1}$. Let S be one of the substitutions of lowest order contained in G but not in G_1 . Then, either F will contain an invariant subgroup of index p , or there is in G a subgroup K