THE FIRST SUMMER MATHEMATICAL INSTITUTE

The First Summer Mathematical Institute, devoted to Lie algebras and Lie groups, was held from June 20 to July 31, 1953 at Colby College, Waterville, Maine. It was supported by a grant from the National Science Foundation to the American Mathematical Society. The Organization Committee consisted of C. C. Chevalley, A. M. Gleason, and Nathan Jacobson (chairman).

The following twenty mathematicians attended the Institute by invitation of the Organization Committee: Armand Borel, C. C. Chevalley, W. L. Chow, A. M. Gleason, Morikumi Goto, G. P. Hochschild, Kenkichi Iwasawa, Nathan Jacobson, Irving Kaplansky,[1] E. R. Kolchin, W. G. Lister, Deane Montgomery,[1] G. D. Mostow, Hans Samelson, R. D. Schafer, E. V. Schenkman, H. C. Wang, Hidehiko Yamabe, Hans Zassenhaus, and Leo Zippin.[1]

The Institute was open to all interested mathematicians and the following nine attended: S. A. Amitsur, S. G. Bourne, J. L. Brenner, H. E. Campbell, C. W. Curtis, E. C. Paige, Jr., A. J. Penico, G. B. Seligman, and M. L. Tomber.

The formal program of the Institute consisted of a seminar on simple Lie algebras and the following four series of lectures:

Armand Borel, *The cohomology of compact connected Lie groups and their coset spaces*;

C. C. Chevalley, *Cartan subalgebras and Cartan subgroups*;

Hidehiko Yamabe, *Structure of locally compact groups*;

Hans Zassenhaus, *Representation theory of Lie algebras of characteristic p.*

These are summarized below.

In addition there was a series of single talks on various mathematical topics as follows:

Kenkichi Iwasawa, *On some totally disconnected compact groups.*

H. C. Wang, *Closed manifolds with homogeneous complex analytic structure.*

Morikumi Goto, *Dense imbeddings of locally compact connected groups.*

E. R. Kolchin, *Galois theory of differential fields.*

W. L. Chow, *The Albanese variety of an algebraic variety.*

A. M. Gleason, *Lattices of topologies.*

Hans Zassenhaus, *Trace functions of characteristic p.*

G. D. Mostow, *Uniform subgroups of solvable groups.*

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[1] Attended for the first three weeks only.