

Preface to the Present Volume

A symposium on "Automorphic Forms and Number Theory" was held at Tohoku University, Sendai, on November 7–11, 1983, with a financial support by the Ministry of Education. There were 20 one hour lectures, including two series of survey lectures:

- (1) "Introduction to Shimura varieties" (by M. Ohta),
- (2) "Some conjectures on Hodge structures associated to automorphic forms" (by T. Oda).

This volume contains 8 papers based on the lectures on original works and one based on the survey lecture (2). We could not include other lectures given by H. Hida, Y. Kitaoka, H. Kojima, A. Kurihara, H. Masumoto, M. Ohta, H. Yanai and M. Yoshida, because their results were supposed to be published elsewhere. Professor J. Mennicke of Bielefeld University also participated in the symposium and gave a lecture titled "Discrete groups on hyperbolic 3-spaces". This volume contains 4 more research papers by Arakawa, Ibukiyama, Hashimoto-Ibukiyama, and Koike, which were submitted after the symposium.

The editors would like to thank the institutions mentioned above for various helps, and all the participants of the symposium (and in these proceedings) for enthusiastic cooperations.

October 25, 1984

I. Satake

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