

討論会記録 II

Representations of algebraic groups and number theory の文献

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1. Representations of  $p$ -adic groups

- [1] I.M. Gelfand and M.I. Graev, Representations of quaternion group over a locally compact or function field, Functional analysis and its applications, Vol.2, 1968, 20-35.
- [2] I.G. Macdonald, Spherical functions on  $p$ -adic Chevalley group, Bull. Amer. Math. Soc., 74 (1968), 520-525.
- [3] H. Matsumoto, Fonctions sphériques sur un groupe semi-simple  $p$ -adique, C.R. Acad. Sc. Paris, t.269 (1969) 829-832.
- [4] P.J. Sally and J.A. Shalika, Characters of the discrete series of representations of  $SL(2)$  over a local field, Proc. Nat. Acad. Sci. U.S.A. 61 (1968), 1231.
- [5] P.J. Sally and J.A. Shalika, The Plancherel formula for  $SL(2)$  over a local field, Proc. Nat. Acad. Sci. U.S.A. 63 (1969), 661.
- [6] T. Shintani, On certain square-integrable irreducible unitary representations of some  $p$ -adic linear groups, J. Math. Soc. Japan, 20 (1968), 522-565.

2. Theta functions and harmonic analysis

- [1] P. Cartier, Théorie des groupes fonctions thêta et modules des variétés abéliennes, Séminaire Bourbaki, 1967/68, n°338.
- [2] J. Igusa, Harmonic analysis and theta functions, Acta Math., 120 (1968), 187-222.
- [3] 久保田, 「相互法則と実解析」, 数学 (近刊)
- [4] J.A. Shalika and S. Tanaka, On an explicit construction

of a certain class of automorphic forms, Amer. J. Math. (1969)

- [5] A. Weil, Sur certains groupes d'opérateurs unitaires, Acta Math. 111 (1964), 143-211.
- [6] A. Weil, Sur la formule de Siegel dans la théorie de groupes classiques, Acta Math., 113 (1965), 1-87.

### 3. Adélization of Hecke theory

- [1] H. Jacquet and R. Langlands, Automorphic forms on  $GL(2)$  (Lecture Notes in Mathematics, Vol.114), 1969, Springer.
- [2] A. Weil, Série de Dirichlet et fonctions automorphes, Séminaire Bourbaki, 1967/68, n°346.

### 4. Eisenstein series

- [1] L.D. Faddeev, Expansion in eigenfunctions of the Laplace operators on the fundamental domain of a discrete group on the Lobacevskii plane, Transactions of the Moscow Mathematical Society, Vol.17 (1967), 323-350.

### 5. Discrete subgroups of Lie groups

- [1] C. Delaroche et A. Kirillov, Sur les relations entre l'espace dual d'un groupe et la structure de ses sous-groupes fermés (d'après D.A. Kajdan), Séminaire Bourbaki 1967/68, n°343.
- [2] D.A. Kajdan, On the relation between the dual space of a group and structure of its closed subgroups, Functional analysis and its applications, Vol.1 (1967), 71-74.

### 6. General references

- [1] Algebraic groups and discontinuous subgroups, Proceedings of Symposia in Pure Mathematics, Vol.9, Amer. Math. Soc. 1966.

- [2] A. Borel, Linear algebraic groups, Benjamin, 1969.
- [3] Borel, A., Introduction aux groupes arithmetique, Hermann, 1969.
- [4] I.M. Gelfand, Automorphic functions and the theory of representations, Proc. Int. Congress of math., Stockholm, 1962.
- [5] I.M. Gelfand, M.I. Graev and I. Pyatezki-Shapiro, Theory of representations and automorphic functions (Generalized functions, Vol.6), Moscow, 1966.
- [6] Harish-Chandra, Automorphic forms on semisimple Lie Groups, Lecture Notes in Mathematics, Vol.62, Springer-Verlag (1968).
- [7] A. Selberg, Harmonic analysis and discontinuous groups in weakly symmetric Riemannian spaces with applications to Dirichlet series, J. Indian Math. Soc., 20 (1956), 47-87.
- [8] A. Selberg, Discontinuous groups and harmonic analysis, Proc. Int. Congress of math., Stockholm, 1962.