



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

ON THE FAREY SERIES AND THE HECKE L-FUNCTIONS

Akio Fujii

Rikkyo University, Department of Mathematics

In our work, "On the Farey series and the Riemann hypothesis", we have shown that the uniform distribution of the Farey series with the denominators in an arithmetic progression is deeply connected with the generalized Riemann hypothesis for the Dirichlet L-functions. Now, we shall give a more precise study on it as an application of an analytic study of a generalization of the Hecke's zeta function which has its origin in the theory of the Diophantine approximation. We shall see some singular phenomenon at the rational points which does not occur to the Farey series without any restriction on the denominators.

Date: Monday, October 8, 2007

Time: 15:00

Place: IMBM Seminar Room