Title: Euler products, Farey series, and the Riemann hypothesis II

Author(s): R. Balasubramanian, Shigeru Kanemitsu and Masami Yoshimoto

This paper is a continuation of, as well as a companion to, [4], in which we developed our continual research further on the equivalent assertions to the Riemann hypothesis (RH) in terms of the Farey points. In this paper we shall give all the proofs of results stated in [4] in a more general setting, in the case of rather intriguing functions including the tent function, the Takagi function and general Weierstrass functions. Our results are concerned with the equivalent conditions to the RH stated as the distribution of values at Farey points of these functions.

Address:
R. Balasubramanian
The Institute of Mathematical Sciences
C.I.T. Campus, Taramani
Chennai, 600 113
India
E-mail: balu@imsc.res.in

Address:
Shigeru Kanemitsu
Graduate School of Advanced Technology
University of Kinki
Iizuka, Fukuoka, 820-8555
Japan
E-mail: kanemitu@fuk.kindai.ac.jp

Address:
Masami Yoshimoto
Graduate School of Mathematics
Nagoya University
Nagoya, 464-8602
Japan
E-mail: x02001n@math.nagoya-u.ac.jp