

Higher depth regularized products and zeta functions of Milnor type

Yoshinori YAMASAKI

(Graduate School of Science and Engineering, Ehime University)

Abstract

In this talk, for a given sequence, we introduce “Higher depth regularized products” via the derivatives of the attached zeta function at non-positive integer points. In particular, we concretely calculate them in the case where the sequence is given by the non-trivial zeros of Hecke L-functions. This gives a generalization of the result obtained by C. Deninger in the case of the Riemann zeta function. (This is a joint work with Masato Wakayama.)