## The joint universal property for derivatives of the Riemann zeta function

Hidehiko Mishou

In 1980's, B. Bagchi, S. M. Gonek and S. M. Voronin independently proved that the joint universality theorem for a set of Dirichlet *L*-functions with inequivalent characters. For the Riemann zeta function  $\zeta(s)$ , it is easily obtained that the joint universality does not hold for a pair of  $\zeta(s)$  and its derivative  $\zeta'(s)$ . In the conference, I will report that if we choose a suitable integer  $k \geq 0$ , the joint universality holds for a pair of  $\zeta(s)$  and its *k*-th derivative  $\zeta^{(k)}(s)$ .