Sophia University
Mathematics Colloquium

When: Tuesday, November 14, 2017, 17:30-18:30

Where: Room No. 201, Main Bldg., Ichigaya-Campus

Speaker: Sumaia Saad Eddin (Nagoya University)

Title: An asymptotic formula for the $2k$-th power mean value of $|L'/L(1+it_0,\chi)|$

Abstract: Let q be a positive integer $q>1$, and let $¥chi$ be a Dirichlet character modulo q. Let $L(s, ¥chi)$ be the attached Dirichlet L-functions, and let $L^¥prime(s, ¥chi)$ denote its derivative with respect to the complex variable s. In this talk, we give an asymptotic formula for the $2k$-th power mean value of $¥left| L^¥prime/L(1+it_0, ¥chi) ¥right|$ when $¥chi$ runs over all Dirichlet characters modulo $q>1$, for any fixed real number t_0.

This is joint work with professor Kohji Matsumoto.

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