

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : 鄭堯 Dr. Yao Cheng (本所 Academia Sinica)

Title : **Special Value Formulae for the Twisted Triple Product and Applications**

Abstract :

In number theory, it is indispensable to study analytic properties of L -functions as they often relate to important problems in this realm. Perhaps two of the most famous problems in this aspect are the Riemann hypothesis and the Artin conjecture. In the first part of this talk, we will introduce L -functions and Maass forms, and we will discuss some basic properties of these two objects. In the second part of this talk, we will present some explicit formulae which relate certain period integrals of Maass forms and the central values of the twisted triple product L -functions. As an application of these formulae and the standard analytic properties of the L -functions, we prove the optimal upper bound of a sum of restricted 2-norms of the L^2 -normalized Maass forms on certain quadratic extensions with prime level and bounded spectral parameter.

Time : 11:00 - 12:30, Wednesday, November 28, 2018

Venue : Room 638, Astro-Math. Buidling (NTU Campus)

Organizer : Sheng-Fu Chiu (Academia Sinica), Chien-Hsun Wang (National Center for Theoretical Sciences)

Refreshment : 10:30

https://www.math.sinica.edu.tw/www/file_upload/conference/2016TPS/index.html

中央研究院數學研究所 敬上

2018.11.21