上智大学数学談話会のお知らせ

日時：2021年4月27日（火）15:30 – 16:30

場所：Zoom によるオンライン開催

講演者：峰 正博 氏 （上智大学）

講演題目：Limit theorems for the value-distributions of zeta-functions

講演要旨：The major modern method to study the value-distributions of zeta-functions is to compare zeta-functions with some probabilistic models. For example, we often study mean values of zeta-functions via the expected values of suitable random variables. The Bohr–Jessen limit theorem provides a foundation of such probabilistic studies of zeta-functions. In this talk, I will focus on the speed of the convergence of the limit theorem. The estimates of the speed are called the discrepancy estimates and have been investigated by many researchers including Matsumoto (1985, 1987, 1988), Harman–Matsumoto (1994), Lamzouri–Lester–Radziwiłł (2019), and M. (2019). If time permits, I will further talk about my recent work on the asymptotic behaviors of extreme values for L-functions attached to cusp forms.