

國立中山大學應用數學系

學術演講

講者：翁鵬絜 博士 (國家理論科學中心)

講題："Explicit" number theory – some theoretical and computational results

時間：2021/12/07 (Tuesday) 16:10 ~ 17:00

地點：理 SC4009-1 教室

茶會：15:30

Abstract

Nowadays, many classical results and tools from number theory are being actively used in applied mathematics, including cryptography and numerical analysis. In order to implement applications, one would require explicit versions of these number-theoretic methods and results, which led to the rapid development of "explicit" number theory in the past decades. Indeed, explicit number theory not only stimulated progress but also posed new problems in "purely theoretical" number theory.

In this (non-number-theorist-friendly) talk, we will discuss various new methods and results for zeros of zeta functions (including the famous Riemann zeta function), the least prime problem (of finding the "smallest" prime number satisfying specific properties), and the cyclicity problem for elliptic curves (related to cryptography) from theoretical and computational aspects. Also, we will talk about some possible further directions and developments for these topics.

敬請公告！歡迎參加！

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