

# 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：Cyclicity of CM Elliptic Curves Modulo  $p$  in Short Intervals

時間：2020/12/17（Thursday）14:10 ~ 15:00

地點：理學院四樓理 SC 4009-1 教室

茶會：15:00 於理 SC 4010 室（系辦公室）

### Abstract

Let  $E$  be a CM elliptic curve defined over the rational numbers. In light of the Lang-Trotter conjecture, there is a question asking for an asymptotic formula for the number of primes  $p < x$  for which the reduction modulo  $p$  of  $E$  is cyclic. This question can be seen as an elliptic analogue of the prime number theorem and has been studied by Akbary, Cojocaru, Gupta, M.R. Murty, V.K. Murty, and Serre.

In this talk, we will start by reviewing the prime number theorem and some properties of elliptic curves and then discuss the previous work and a short interval variant of such "cyclicity problem" which, in particular, presents a generalisation of the work of Huxley on the prime number theorem in short intervals.

國立中山大學應用數學系

敬請公告！歡迎參加！

應用數學系：<http://math.nsysu.edu.tw>

校園地圖：[http://math.nsysu.edu.tw/var/file/183/1183/img/779/nsysu\\_math\\_map.jpg](http://math.nsysu.edu.tw/var/file/183/1183/img/779/nsysu_math_map.jpg)

交通資訊：<https://www.nsysu.edu.tw/p/412-1000-4132.php?Lang=zh-tw>



應用數學系



校園地圖



交通資訊