

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : Peng-Jie Wong 翁鵬絜 (National Center for Theoretical Sciences)

Title : Cyclicity of CM Elliptic Curves Modulo p in Short Intervals

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 discuss their 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.

Time : 13:30 - 15:00, Wednesday, September 30, 2020

Venue : Lecture Hall 5F, Cosmology Building (NTU Campus) 次震宇宙館 五樓演講廳

Organizer : Wei-Bo Su (Academia Sinica), Peng-Jie Wong (National Center for Theoretical Sciences)

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

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