國立陽明交通大學應用數學系
學術演講公告

主講人： 蔡國榮教授 (台大數學)

講　題：An Introduction to Iwasawa Theory

時　間：111 年 12 月 13 日(星期二) 下午 2:00 –3:00

地　點：(光復校區) 科學一館 223 室

Abstract

One of the most beautiful discoveries in modern number theory is the interplay between algebraic and analytic invariants. The simplest such instance was discovered by Kummer in his work towards the Fermat's Last Theorem. To be specific, he described a connection between the validity of the Fermat's Last Theorem and certain values of the complex Riemann zeta function. K. Iwasawa has generalized Kummer's work and has formulated a `main conjecture' (which is now a theorem of A. Wiles and B. Mazur) that describes Kummer's discovery group theoretically (more precisely, representation theoretically) in a much refined manner.

In this talk, we will survey the idea of Iwasawa. If time permits, we will also describe how the philosophy of Iwasawa has been adopted and generalized to study the structure of many other (p-adic) representations and remains the most powerful tool in attacking problems in special values of various zeta-functions.

敬請公告　　歡迎參加

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