

國立中正大學數學系
暨應用數學碩士班、統計科學碩士班
學 術 演 講

Deligne's conjecture and the cross-ratio formula

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Abstract

At the 1977 Corvallis conference, P. Deligne proposed a remarkable conjecture describing the algebraicity of critical L -values in terms of motivic periods. The conjecture has recently been settled for pure motives of rank one. In all other known cases in the literature, proofs typically depend on integral representations of the relevant L -functions.

In the framework of the Langlands--Clozel correspondence, we introduce, on the automorphic side, a cross-ratio formula for the critical values of Rankin-Selberg L -functions. This formula provides a new method for addressing Deligne's conjecture.

In this talk, we will introduce Deligne's conjecture on the symmetric power L -functions of modular forms, and present the cross-ratio formula.

日 期：115 年 5 月 20 日(星期三) 16:10~17:00

地 點：本校數學館 527 教室（嘉義縣民雄鄉大學路 168 號）

茶 會：15:30~16:00 數學館四樓 409 室舉行

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