

國立中央大學數學系

專題演講

主 講 人：彭俊文博士 (國家科學理論研究中心)

演講題目：**An Efficient Algorithm for Determining the
Composition Relationship of Polarized
Morphisms**

演講茶會：2023年05月04日(星期四) 3:30 p.m. ~ 4:00 p.m.

茶會地點：中央大學鴻經館M306

演講時間：2023年05月04日(星期四) 4:00 p.m. ~ 5:00 p.m.

演講地點：中央大學鴻經館M107

Abstract：

Polarized morphisms are important objects in various mathematical and computational fields, and their composition is a fundamental operation. In this talk, we present a new algorithm to efficiently compute the composition relationship of two polarized morphisms using the concept of dynamical canonical height. Our approach utilizes the properties of dynamical systems and the theory of heights to represent polarized morphisms in a computationally efficient manner, while still allowing for flexibility in handling more complex cases. We also provide an analysis of the time and space complexity of our algorithm and compare its performance to existing approaches on a set of benchmarks. Our experimental results suggest that our proposed algorithm has the potential to outperform state-of-the-art methods and can handle a wide range of cases, which could make it a valuable tool for practical applications of polarized morphisms composition.

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