

國立中央大學數學系

專題演講

主 講 人：李宜霖博士 (國立台灣師範大學數學系)

演講題目：Algebraic and combinatorial aspects of domino tilings

演講茶會：2026年03月19日(星期四) 15:30~16:00

茶會地點：中央大學鴻經館 M306

演講時間：2026年03月19日(星期四) 16:00~17:00

演講地點：中央大學鴻經館 M107

Abstract :

A domino tiling is a covering of a region on the plane using dominoes without gaps or overlaps. I will begin by discussing its background from physics, called the dimer covering, which models how diatomic molecules stick on a crystal surface. This talk focuses on two aspects of domino tilings: in combinatorics, I will review their symmetry classes on the Aztec diamond and present new properties; in algebra, I will establish a connection between specific tiling models and symmetric functions from the viewpoint of Macdonald theory. Finally, I will introduce my recent research in dynamical combinatorics, a vibrant field at the intersection of discrete dynamical systems and combinatorics. This talk does not assume any prior background.

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