

國立交通大學應用數學系

學術演講公告

講題: The Askey–Wilson algebras

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地點: (光復校區) 科學一館 213 室

Abstract

Motivated by different reasons, the Askey–Wilson algebras were introduced by Terwilliger and Zhedanov independently around 1990. One was inspired by the Leonard’s characterization of q -Racah polynomials. The other introduced these algebras to describe the hidden algebraic structure of Racah–Wigner coefficients of $U_q(\mathfrak{sl}_2)$. In this talk, I will give a brief introduction of the two motivations and explain why these algebras are named after Askey and Wilson. If time permits, I will present my recent works on the representation theory of Askey–Wilson algebras.

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