

The even subalgebra of $U(\mathfrak{sl}_2)$ and the Terwilliger algebras of halved cubes

Hau-Wen Huang

Department of Mathematics

National Central University

Email: hauwenh@math.ncu.edu.tw

Abstract

In this talk, I will give a brief introduction to the Terwilliger algebras of Q -polynomial distance-regular graphs. Subsequently, I will present my newest work with my Ph.D. student Chia-Yi Wen on the even subalgebra of $U(\mathfrak{sl}_2)$ and its connection to the Terwilliger algebras of halved cubes. If we still have time, I will display my own result on the Clebsch–Gordan rule for $U(\mathfrak{sl}_2)$ and the Terwilliger algebras of Hamming graphs.

Google meet : meet.google.com/cto-koqq-rpd