
DILIAN YANG, University of Windsor

The ideal structures of self-similar k -graph C^ -algebras*

Let G be a discrete group and Λ be a k -graph. If there is a self-similar action of G on Λ , we call (G, Λ) a self-similar k -graph. One can associate (G, Λ) a universal C^* -algebra, called the *self-similar k -graph C^* -algebra of (G, Λ)* . The class of those C^* -algebras embraces many known important C^* -algebras, such as k -graph C^* -algebras of Kumjian-Pask, Exel-Pardo algebras, and Katsura algebras, and Nekrashevych algebras. In this talk, we will discuss the structures of their gauge-invariant ideals and primitive ideals.

This is joint work with Hui Li.