

Simplicity of Hecke C^* -algebras

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Analysis & Geometry Seminar, Antwerpen

We look for new examples of simple C^* -algebras. In this seminar we focus on the reduced group C^* -algebras, more precisely the C^* -algebras generated by Coxeter groups. Additionally, we explore the simplicity of the slightly deformed Hecke C^* -algebras.

To gain more insight into the simplicity, we study the boundaries of Coxeter groups using Cayley graphs, which helps us classify the Hecke C^* -algebras of right-angled Coxeter groups. Furthermore, we also examine generalizations for Hecke C^* -algebras generated by graph products of Coxeter groups.