

*Department of Mathematics,
University of California San Diego*

Math 243 - Functional Analysis Seminar

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University of Houston

Noncommutative boundary maps and C*-algebras of quasi-regular representations

Abstract:

We investigate some structural properties of C*-algebras generated by quasi-regular representations of stabilizers of boundary actions of discrete groups G . Our main tool is the notion of (noncommutative) boundary maps, namely G -equivariant unital positive maps from G -C*-algebras to $C(B)$, where B is the Furstenberg boundary of G . We completely describe the tracial structure and characterize the simplicity of these C*-algebras. As an application, we show that the C*-algebra generated by the quasi-regular representation associated to Thompson's groups $F < T$ does not admit traces and is simple.

This is joint work with Eduardo Scarparo.

Host: Matthew Wiersma

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11:00 AM

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