

SEEKING REGULARITY PROPERTIES OF C*-ALGEBRAS AT INFINITY

Speaker: Xuanlong Fu Shanghai Center for Mathematical Sciences

Time: Fri, Dec. 6th, 14:00-14:30

Venue: Room 2213, East Main Guanghua Tower

Abstract:

I will talk about some recent progress on the study of regularities of C*-algebras. We introduced a kind of tracial approximation in simple C*-algebras. The tracial approximation behaves well when taking hereditary sub-algebras, matrix algebras and minimal tensor products. Under the tracial approximation, we have a serial of concepts such as tracially nuclear, tracially finite nuclear dimension, and tracially Jiang-Su stable. We show that for a simple separable unital C*-algebras, being tracially finite nuclear dimension, is equivalent to being tracially nuclear and tracially Jiang-Su stable. We also show that for tracially finite nuclear dimension C*-algebras, strict comparison for positives is hold. This is a joint work with Huaxin Lin.

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